




RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

KEYED NOTES	
①	RELOCATE EXISTING THERMOSTAT CONTROLLING EXISTING BOX INDICATED ON PLANS TO LOCATION SHOWN. MODIFY AND PROVIDE NEW CONTROL WIRING AS REQUIRED.

ALTERNATES

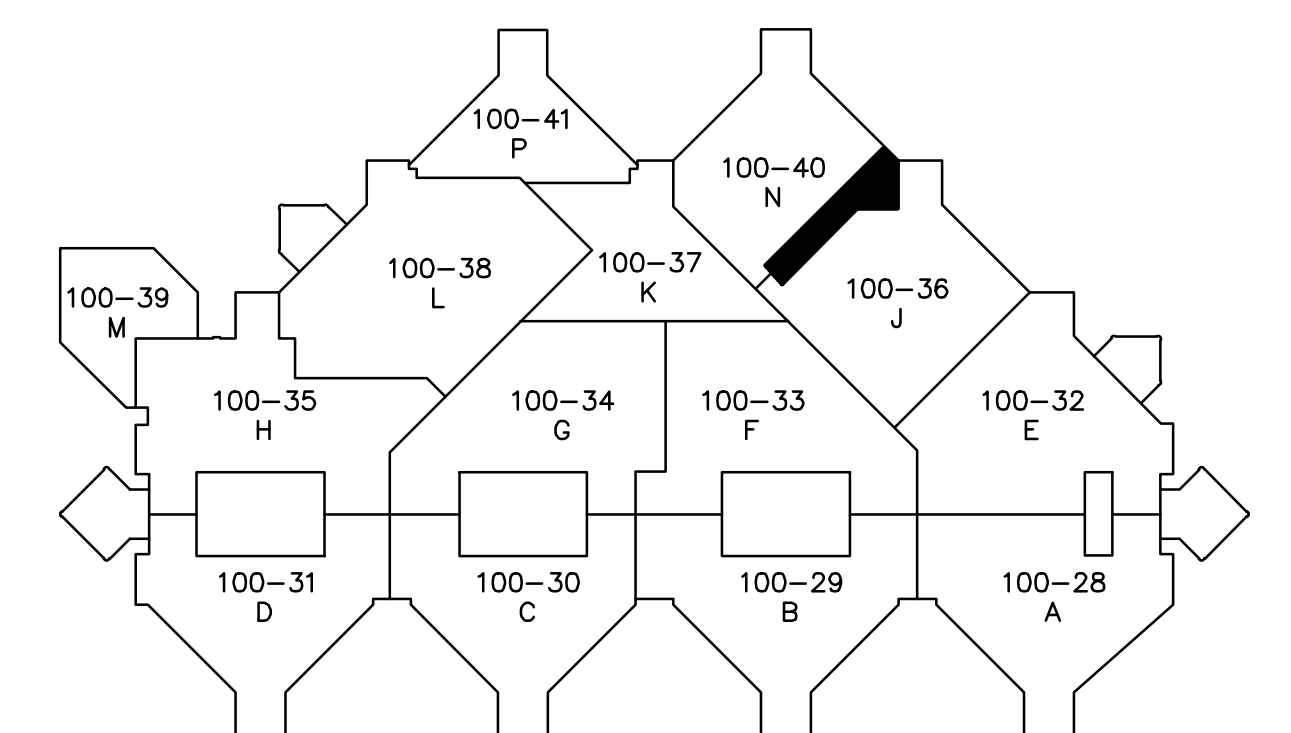
REFER TO ARCHITECTURAL PLANS FOR FOR ALTERNATE DEFINITIONS.

ALTERNATE #1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. NO MECHANICAL DEDUCTS FOR THIS ALTERNATE.

ALTERNATE #2 - PATIENT ROOM 1A-512 TO BE A STORAGE ROOMS WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. NO MECHANICAL DEDUCTS FOR PATIENT ROOM 1A-512.

TOILET 503A TO BE TURNED INTO A STORAGE ROOM. REMOVE EXHAUST GRILLE FROM SCOPE AND PROVIDE RETURN AIR GRILLE CONNECTED TO MECHANICAL RETURN AIR. RETURN AIR GRILLE SHALL BE BALANCED TO 50 CFM.

1 FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"



CONSTRUCTION DOCUMENTS SUBMISSION

[illegible]

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot

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PREFORMED THERMOELASTIC PIPE SADDLE WITH GALVANIZED CLAMP SIZED TO MATCH PIPE SIZE. CUSH-A-CLAMP, VIBRA-CLAMP, OR EQUAL

HANGER ROD
PIPING
UNISTRUT
CUT HANGER ROD FLUSH WITH BOTTOM NUT.

NOTES:
1) THIS DETAIL APPLIES TO UNINSULATED COPPER PIPING AND INSULATED COPPER PIPING ABOVE 80°F. REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
2) ALL UNISTRUT AND HARDWARE SHALL BE GALVANIZED.
3) SPACING OF HANGERS PER SPECIFICATIONS. HANGER SPACING SHALL BE BASED ON THE SMALLEST DIAMETER PIPE SUPPORTED BY THE RACK.

05 PIPE HANGER
M301
NOT TO SCALE

EXTERIOR INSULATION AS SPECIFIED.
RIGID ROUND DUCT WORK
TOP FLANGE TO BE TACK WELDED TO SLEEVE (MINIMUM OF 4 POINTS)
FIRE CAULK COMPRESSED RING
CLOSED CELL INSULATION (REFER TO NOTE 3).
FIRE CAULK (REFER TO NOTE 2)
STAINLESS STEEL WORM DRIVE BAND OR APPROVED
FLEXIBLE DUCT
FLEXIBLE DUCT INSULATION
ABOVE CEILING SPACE
CEILING

NOTES:
1. FLEX DUCT MAY NOT EXCEED MAXIMUM ALLOWABLE LENGTH (REFER TO SPEC).
2. PROVIDE A BOTTOM SLEEVE WHEN THE DUCT SIZE EXCEEDS 14" OR WHEN THE GAP BETWEEN THE CONCRETE DECKING AND THE DUCT WORK INSULATION EXCEEDS 1/2". PROVIDE FIRE CAULK WHEN THE GAP DOES NOT EXCEED 1/2". IF THE GAP IS GREATER THAN 1/2" FILL VOID WITH ROCK WOOL AND FIRE CAULK.
3. PROVIDE SELF-ADHESIVE 1/2" CLOSED CELL INSULATION EQUAL TO "ARMACELL TYPE AP" WITH A MINIMUM THERMAL CONDUCTIVITY OF 0.27 BTU-IN/SQ.FT., A FLAME SPREAD OF LESS THAN 25 AND A SMOKE-DEVELOPED INDEX OF LESS THAN 50. ALL OF THE COMPONENTS LISTED ABOVE SHALL COMPLY WITH MINIMUM REQUIREMENTS SET IN THE SPECIFICATIONS.

04 INTERSTITIAL PENETRATION DUCT SLEEVE
M301
NOT TO SCALE

PLATFORM PURLIN
PLATFORM
SUPPLY AIR DUCT DROP THRU PLATFORM. REFER TO DETAIL
INSULATE AS SPECIFIED
CEILING T-BAR

9'-0" CEILING				9'-6" CEILING			
NECK	RADIUS	OFFSET DUCT	OFFSET DUCT	NECK	RADIUS	OFFSET DUCT	OFFSET DUCT
"d"	"r"	"h"	"w"	"d"	"r"	"h"	"w"
5	-	-	-	5	3	4	6
6	-	-	-	6	3	4	8
8	-	-	-	8	3	4	12
10	5	7	12	10	3	4	20
12	6	8	14	12	6	8	14
14	8	8	20	14	8	8	20
15	6	8	24	15	6	8	24

03 DUCT DROP OFFSET AT INTERSTITIAL PLATFORM PURLIN
M301
NOT TO SCALE

SLAB FROM FLOOR ABOVE
INTERSTITIAL SPACE
PLATFORM PURLIN
PLATFORM
ROUND SUPPLY AIR DUCT DROP THRU PLATFORM. REFER TO DETAIL
ABOVE CEILING SPACE
FLEX DUCT MAY NOT EXCEED MAXIMUM ALLOWABLE LENGTH
CEILING T-BAR
CONNECTION PLENUM WITH FIBERGLASS FREE INSULATION
AIR OUTLET DEVICE

02 ROUND BRANCH DUCT OFFSET BELOW INTERSTITIAL SPACE
M301
NOT TO SCALE

TYPICAL MANUAL VOLUME DAMPER
MAIN SUPPLY RETURN OR EXHAUST DUCT
SPIN-IN FITTING WITH MANUAL VOLUME DAMPER
TYP. ROUND TAKE-OFF
TYP. RECTANGULAR TAKE-OFF. USE SMACNA 45° ENTRY FITTING L = 1/4W (4" MIN.)

01 DUCT BRANCH TAKE OFF
M301
NOT TO SCALE

ROOM THERMOSTAT SEE PLAN FOR LOCATION.
CLAMP OR SYNTHETIC BAND
REFER TO PLANS FOR DUCT SIZES
45° TAP
INSULATION
MAIN DUCT
TERMINAL UNIT SEE SCHEDULES
HEATING HOT WATER LINES SIZE PER SCHEDULE
12" FLEXMASTER "INSPECTOR'S SERIES" SPIN-IN ACCESS DOOR
15" MAX.
REFER TO PLANS FOR DUCT SIZES
CLAMP OR SYNTHETIC BAND
MIN.
MIN.
MIN.
HEATING HOT WATER LINES SIZE PER SCHEDULE

09 AIR TERMINAL UNIT W/HOT WATER HEATING COIL
M301
NOT TO SCALE

NOTES:
1 REFER TO FLOOR PLANS FOR DUCT CONFIGURATION FOR EACH INDIVIDUAL TERMINAL UNIT. REFER TO SCHEDULES FOR HOT WATER HEATING COILS.
2 CONCENTRIC INLET REDUCER BY TERMINAL UNIT MANUFACTURER.
3 INSULATE REHEAT COIL PER SPECIFICATIONS.
4 BOTTOM ACCESS DOOR. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING WORKING CLEARANCES FREE OF PIPING, CONDUIT, DUCTS AND OTHER OBSTRUCTIONS.
5 MAINTAIN MINIMUM STRAIGHT DISTANCE PER SPECIFICATIONS.
6 SERVICE CLEARANCE TO BE 30"x30" MINIMUM OR PER N.E.C. FOR UNITS 120 VOLTS OR GREATER.
7 UNIT CONTROL JUNCTION BOX.
8 CONTROL PANEL SERVICE ACCESS CLEARANCES.
9 INSULATED FLEXIBLE DUCT. (4'-0" LONG MAX)
10 SIDE TAKE-OFF FITTING WITHOUT VOLUME DAMPER EQUAL TO FLEXMASTER "50"
11 SUPPORT BOX WITH DUCT STRAPS AT ALL FOUR CORNERS. COORDINATE LOCATION WITH BOTTOM ACCESS PANEL.
12 SUPPORT FLEXIBLE DUCT FROM STRUCTURE AS SPECIFIED. DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURES, CEILING SUPPORT TEES OR TILES
13 CONFIGURATION SHOWN IS SCHEMATIC AND DOES NOT NECESSARILY REPRESENT THE SPECIFIC UNIT.

RIGID DUCT WITH INSULATION DOWN THROUGH COLLAR AND INTERSTITIAL PLATFORM. SEAL AIRTIGHT JOINTS BETWEEN DUCT AND PLATFORM ON ALL SIDES WITH APPROVED FIRESTOP INSULATION.
INTERSTITIAL PLATFORM
APPROVED FASTENERS INSTALLED ON 6" CENTERS (MAX SPACING)
SPIN-IN FITTING. PROVIDE INTEGRAL VOLUME DAMPER WHEN INSTALLED ABOVE LAY-IN CEILING.
INSULATED FLEX DUCT MAX. LENGTH = 4'-0"
GALVANIZED SLEEVE SHALL BE 2 GAUGES HEAVIER THAN DUCT PASSING THRU. SLEEVE SHALL EXTEND 4" OUT IN ALL DIRECTIONS HORIZONTALLY AND 4" UP VERTICALLY FROM TOP OF SLAB. SLEEVE SHALL BE WELDED CONSTRUCTION.
DIFFUSER - PROVIDE VOLUME DAMPER IN THROAT IF INSTALLED IN A NON-ACCESSIBLE CEILING.
PROVIDE BLANKET INSULATION W/ VAPOR BARRIER ON BACK OF GRILLE. SEAL EDGES OF VAPOR BARRIER TO THE GRILLE.
USE NYLON BANDS TO SECURE DUCT TO NECK OF AIR DEVICE.

08 ROUND BRANCH DUCT AND TO GRILLES AND DIFFUSERS
M301
NOT TO SCALE

STEP-1:
EXISTING SLAB AT INTERSTITIAL
EXISTING HOLE
REMOVE PERLITE
STEP-2:
FILL OPENING WITH LATICRETE TOPPING SLAB
1-1/2" ANGLE IRON. TACK WELD EVERY 6". PLACE AT 12" CENTERS.
ADD NEW DECKING TACK WELD EVERY 6" AROUND PERIMETER.

07 EXISTING INTERSTITIAL SLAB OPENING WITH LATICRETE
M301
NOT TO SCALE

INFILL EXISTING OPENING WITH NEW LATICRETE TOPPING SLAB
EXISTING 4" x 4" STEEL ANGLES
EXISTING TOPPING SLAB
EXISTING METAL DECK
TACK WELD AT 3" O.C.
NEW 3/8" X LENGTH REQUIRED X WIDTH REQUIRED STEEL PLATE

NOTE: FILL EXISTING INTERSTITIAL OPENING (WITH EXISTING STEEL ANGLES AT OPENING) WITH LATICRETE

06 EXISTING INTERSTITIAL SLAB OPENING WITH STEEL
M301
NOT TO SCALE

TEMPORARY FLUSHING LOOP. PROVIDE ON BRANCHES LONGER THAN 10 FEET FROM MAIN CONNECTION. SIZE = ONE PIPE SIZE SMALLER THAN BRANCH PIPING, MIN. 3/4".
TEST PLUG W/ VALVE TAP (TYP.)
UNION (TYPICAL)
2-WAY CONTROL VALVE
MANUAL AIR VENT
BALANCING VALVE
CHWR
CHWS
COIL
COIL DRAIN WITH HOSE CONNECTION AND CAP
ISOLATION VALVES BALL VALVES (THROUGH 2") BUTTERFLY VALVES (2 1/2" & LARGER)

NOTE: 1. INSULATE ALL PIPING, VALVES, FITTINGS, AND ACCESSORIES.
2. INSTALL TEST PLUGS IN EASILY ACCESSIBLE LOCATIONS WITH MINIMUM OF 12" CLEARANCE

10 COIL PIPING CONNECTION 2-WAY CONTROL VALVE
M302
NOT TO SCALE

CONSULTANTS:		ARCHITECT/ENGINEERS:		CONSTRUCTION DOCUMENTS SUBMISSION	
 GLMV Architecture 1180 Dairy Ashford, Suite 200 Houston, TX 77059 Tel: (281) 870-1714 Fax: (281) 870-1734 www.glmv.com		 Garner-Fritzsche ENGINEERING, INC. 6565 West Loop South, Suite 500, Bellaire, TX 77401 713.432.1422 - Fax 713.432.1253 www.garnerfritzsche.com Texas Reg. No. F-5712 GFE Project No. 13064		 Atriax GROUP	
Revisions:				Drawing Title DETAILS MECHANICAL	
				Approved Project Director - VAPACHS PLANNING AND ENGINEERING	
				Project Title 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line	
				Location MEDICAL CENTER HOUSTON TX	
				Date 09/30/2014	
				Checked AEF	
				Drawn GWM	
				Project Number 580-13-403	
				Building Number B-100	
				Drawing Number M301	
				Dwg. 22 of 40	
				Office of Construction and Facilities Management Department of Veterans Affairs	

one eighth inch = one foot

0 4 8 16

one quarter inch = one foot

0 4 8

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Texas Reg. No. F-5712
GFE Project No. 13064

GENERAL NOTES

1. ALL ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND START OF CONSTRUCTION TO DETERMINE THE EXISTING CONDITION OF THE ELECTRICAL SYSTEMS AND DEVICES. CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING ANY DOCUMENTATION WHICH REFLECT THE EXISTING CONDITIONS. COORDINATE ALL OUTLET/DEVICE LOCATION, CONNECTION TYPE, AND TERMINATION REQUIREMENTS WITH OTHER DISCIPLINES, ARCHITECTURAL PLANS AND EQUIPMENT INSTALLERS/MANUFACTURERS PRIOR TO ROUGH-IN.
2. ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, AMERICAN DISABILITIES ACT (ADA), STATE, LOCAL ORDINANCE CODES AND REQUIREMENTS.
3. ALL EQUIPMENT, MATERIALS, AND INSTALLATION METHODS AS OUTLINED IN THE SPECIFICATIONS SHALL APPLY TO THIS PROJECT.
4. ELECTRICAL GENERAL NOTES ON ANY SHEET SHALL APPLY TO ALL OTHER ELECTRICAL SHEETS UNLESS INDICATED OTHERWISE.
5. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
6. PROVIDE ALL NEW CONDUIT AND COMPRESSION FITTINGS UNLESS NOTED OTHERWISE. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS INDICATED OTHERWISE.
7. ALL NEW CONDUIT IS TO BE ROUTED IN THE INTERSTITIAL AND LABELED TO MATCH THE VA STANDARDS.
8. CONTRACTOR SHALL USE COMPRESSION FITTINGS.
9. ALL OUTDOOR CONDUIT SHALL BE LISTED AND SUITABLE FOR THE ENVIRONMENT WHICH IT'S TO BE INSTALLED IN (NEC 300.6). IN ADDITION, NEW CONDUIT EXPOSED TO THE WEATHER SHALL BE LISTED AS SUNLIGHT RESISTANT. ALL CONDUIT COUPLING AND CONNECTORS EXPOSED TO THE OUTSIDE SHALL BE WEATHERPROOF, RAINPROOF, AND RAINIGHT/WATERTIGHT.
10. PROVIDE ALL NEW CONDUCTORS UNLESS NOTED OTHERWISE. CONDUCTORS SHALL BE COPPER AND RATED NO LESS THAN 75 DEGREES CELSIUS. CONDUCTOR TERMINATIONS SHALL MATCH OR EXCEED THE RATING OF THE CONDUCTORS.
11. ALL WIRING AND CABLING SHALL BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.
12. THE MINIMUM WIRE SIZE FOR ALL NEW CONDUCTORS SHALL BE #12 AWG COPPER FOR ALL SHORT DISTANCE RUNS. ALL 120V AND 277 CIRCUIT CONDUCTORS EXCEEDING 50 FEET (100 FEET FOR 277V) IN LENGTH SHALL BE AT MINIMUM OF #10 WIRE. THE LARGEST CONDUCTOR SIZE SHALL BE USED IF ANY DISCREPANCY BETWEEN THE CONSTRUCTION DOCUMENTS AND/OR BUILDING STANDARDS OCCUR.
13. RAISE, OFFSET, LOWER, AND EXTEND EXISTING BRANCH CIRCUITS AS NEEDED.
14. JUNCTION BOXES MUST BE INDEPENDENTLY MOUNTED ON GALVANIZED STEEL CHANNELS AND PER NEC. FOR ALL JUNCTION BOXES THAT ARE PART OF THE SCOPE, PERMANENTLY MARK ON THE COVER PLATE THE ASSOCIATED CIRCUIT NUMBER AND VOLTAGE.
15. PROVIDE NEW THERMAL MAGNETIC CIRCUIT BREAKERS FOR ALL EQUIPMENT AND DEVICES UNLESS INDICATED OTHERWISE. THE NEW CIRCUIT BREAKER SHALL MATCH THE PANELBOARD'S MANUFACTURER, BREAKER TYPE (THERMAL MAGNETIC OR GREATER), A.I.C. RATING, AND SHALL BE FULLY RATED (NO SERIES RATING ALLOWED). PROVIDE HACR TYPE CIRCUIT BREAKERS FOR ALL HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT. UPDATE THE PANELBOARD DIRECTORY AS REQUIRED.
16. IN THE EVENT ANY DISCREPANCIES OCCUR BETWEEN ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND OTHER DRAWINGS OR SPECIFICATIONS; CONTRACTOR IS TO INCORPORATE IN THE BID PRICE THE MOST STRINGENT OPTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL ELECTRICAL COMPONENTS IF EQUIPMENT PURCHASED DIFFERS FROM WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS.

LIGHT FIXTURE SCHEDULE GENERAL NOTES

REFER TO PLANS
1. REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET AND LIGHTING PLAN FOR ADDITIONAL INFORMATION.

COMPLETE PART NUMBER
2. COMPLETE LIGHTING FIXTURE MANUFACTURER PART NUMBERS ARE NOT SHOWN BUT SHALL BE OBTAINED FROM THE COMBINATION OF THE SERIES NUMBER, NUMBER OF LAMPS, TYPE OF LAMPS, VOLTAGE, AND DESCRIPTION. THE COMPLETE PART NUMBER FOR EACH LIGHT FIXTURE SHALL INCORPORATE THE REQUIREMENTS SHOWN ON THE LIGHT FIXTURE SCHEDULE, DRAWINGS, AND CONTRACT DOCUMENTS.

BALLAST
3. EXACT QUANTITY OF BALLASTS NEEDED PER FIXTURE SHALL BE IDENTIFIED VIA THE SWITCHING INDICATED ON THE LIGHTING PLANS. FOR EXAMPLE, IF THE FIXTURE IS SHOWN TO BE DUAL SWITCHED, THEN PROVIDE TWO OR MORE BALLASTS TO ACCOMMODATE THE SWITCHING SCHEME.
4. EACH BALLAST SHALL BE ELECTRONIC, HAVE A TOTAL HARMONIC DISTORTION LESS THAN OR EQUAL TO 10%, AND A SOUND RATING OF A. PROVIDE DIMMING BALLAST(S) AS NEEDED. IN THE EVENT ONE LAMP IS TO FAIL, BALLAST SHALL BE CAPABLE OF CONTINUING POWER TO THE OTHER LAMP(S) WITHIN THE FIXTURE.
5. LABEL ALL BALLASTS USING A PERMANENT BLACK MARKING PEN IDENTITY THE LIGHTING UN—SWITCHED CIRCUIT.

LAMPS
6. LAMP COLOR TEMPERATURE SHALL BE 3500K UNLESS INDICATED OTHERWISE IN OWNER GUIDELINES; CONFIRM EXACT COLOR TEMPERATURE OF LAMPS WITH OWNER PRIOR TO PURCHASING. MINIMUM LAMP CRI SHALL BE 85.

FIXTURE MOUNTING HARDWARE & FINISH
7. CONFIRM ALL CEILING TYPES, FINISHES, MOUNTING HARDWARE REQUIRED, AND PROJECT CONDITIONS WITH OWNER PRIOR TO ORDERING NEW LIGHTING FIXTURES, LAMPS, AND BALLAST.

EMERGENCY BATTERY PACKS — 1 LAMP
8. PROVIDE UL LISTED BATTERY PACK FOR EMERGENCY FIXTURES WITH A SINGLE LAMP. THE NEW BATTERY PACK IS TO BE FACTORY INSTALLED AND PART OF EMERGENCY SYSTEM INTEGRAL TO THE LIGHTING FIXTURE.

EMERGENCY BATTERY PACKS — 2 LAMPS OR MORE
9. PROVIDE UL LISTED PARALLEL CIRCUIT BATTERY PACK (OTA I-232 OR EQUIVALENT) FOR EMERGENCY FIXTURES WITH TWO LAMPS OR MORE. THE NEW BATTERY PACK IS TO BE FACTORY INSTALLED AND PART OF EMERGENCY SYSTEM INTEGRAL TO THE LIGHTING FIXTURE. IN THE EVENT A SINGLE EMERGENCY LAMP WERE TO MALFUNCTION, THE PARALLEL WIRING OF THE BATTERY PACK SHALL ALLOW FOR EMERGENCY ILLUMINATION VIA ANOTHER LAMP.

EMERGENCY BATTERY FEATURES
10. THE BATTERY PACK SHALL HAVE A TEST SWITCH, AN LED CHARGING INDICATOR, NICKEL—CADMIUM BATTERY, AND A 7—10 YEAR LIFE EXPECTANCY.

EMERGENCY BATTERY PACK ILLUMINATION
11. THE BATTERY PACK SHALL PROVIDE ILLUMINATION FOR AT LEAST 90 MINUTES OF CONTINUOUS OPERATION.


EMERGENCY BATTERY PACK CIRCUIT AND CONNECTIONS
12. PROVIDE AN UNSWITCHED CONDUCTOR FROM THE SAME CIRCUIT SUPPLYING THE EMERGENCY FIXTURE TO THE BATTERY PACK SENSE LEAD.

EMERGENCY BATTERY PACK OPERATION
13. EMERGENCY LIGHTING SHALL OPERATE IN SUCH A WAY THAT IN EVENT THE NEAREST LIGHTING FIXTURE LOSES POWER/ELECTRICITY, THE EMERGENCY FIXTURE BATTERY PACK SHALL SENSE THE POWER LOSS AND AUTOMATICALLY PROVIDE ILLUMINATION FOR THE AREA.

INSTALLATION
14. ALL LIGHT FIXTURES SHALL BE INSTALLED PER N.E.C. 410.16.

ACCEPTABLE MANUFACTURERS
15. MANUFACTURERS OTHER THAN THOSE LISTED IN THE DRAWINGS ARE ACCEPTABLE; REFER TO THE SPECIFICATIONS IF APPLICABLE. SHOULD THE CONTRACTOR SELECT A DIFFERENT MANUFACTURER THAN THOSE LISTED OR SPECIFIED, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THAT ALL FIXTURES AND REQUIRED ACCESSORIES ARE EQUIVALENT AND SUITABLE FOR PROJECT CONDITIONS (CEILING TYPES, ENVIRONMENT, SPACE LIMITATIONS, LIGHT DISTRIBUTION, ETC.) THE OWNER MUST ALSO GIVE APPROVAL OF PROPOSED MANUFACTURER(S).

SUBMITTALS
16. SUBMISSION OF VENDOR/SHOP DRAWINGS FOR APPROVAL SHALL BE CONSTRUED THAT ALL CONTRACT DOCUMENT LIGHTING REQUIREMENTS HAVE BEEN INCLUDED AND THAT THE CONTRACTOR HAS VERIFIED EVERY LIGHTING FIXTURE VOLTAGE, QUANTITY OF BALLASTS, QUANTITY OF LAMPS, LAMP COLOR TEMPERATURE, AND MOUNTING WITH THE BUILDING CONDITIONS.

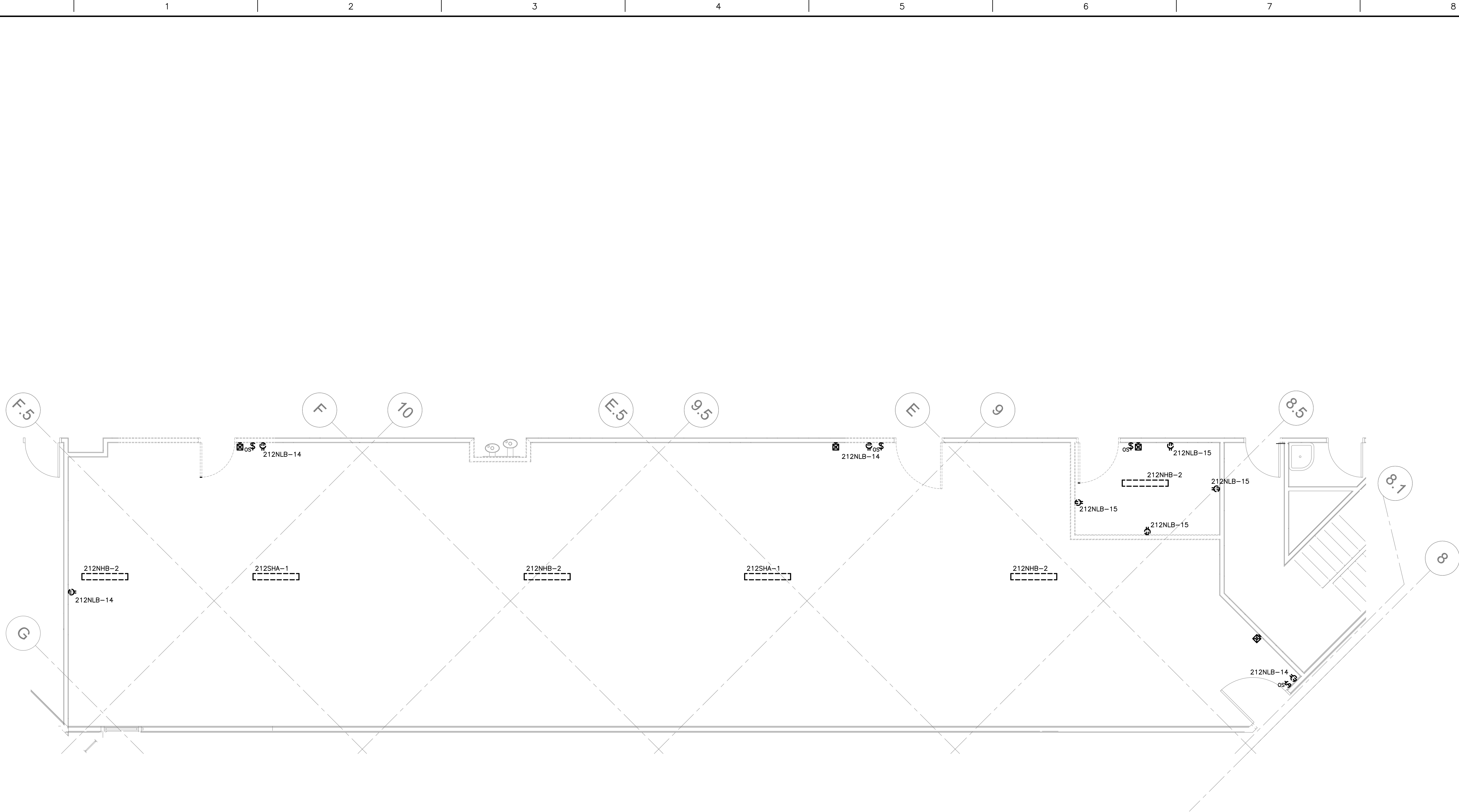
<h1 style="text-align: center;">CONSTRUCTION DOCUMENTS SUBMISSION</h1>			
3-403: Renovate 2nd B-100 for Diagnostic and Copy Care Line		Project Number 580-13-403	<div style="text-align: center;"> Office of Construction and Facilities Management </div>
		Building Number B-100	
		Drawing Number <div style="text-align: center; font-size: 1.5em;">E000</div>	
LOCAL CENTER HOUSTON TX			
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		Dwg. 23 of 40	



SCALE: N.T.S.

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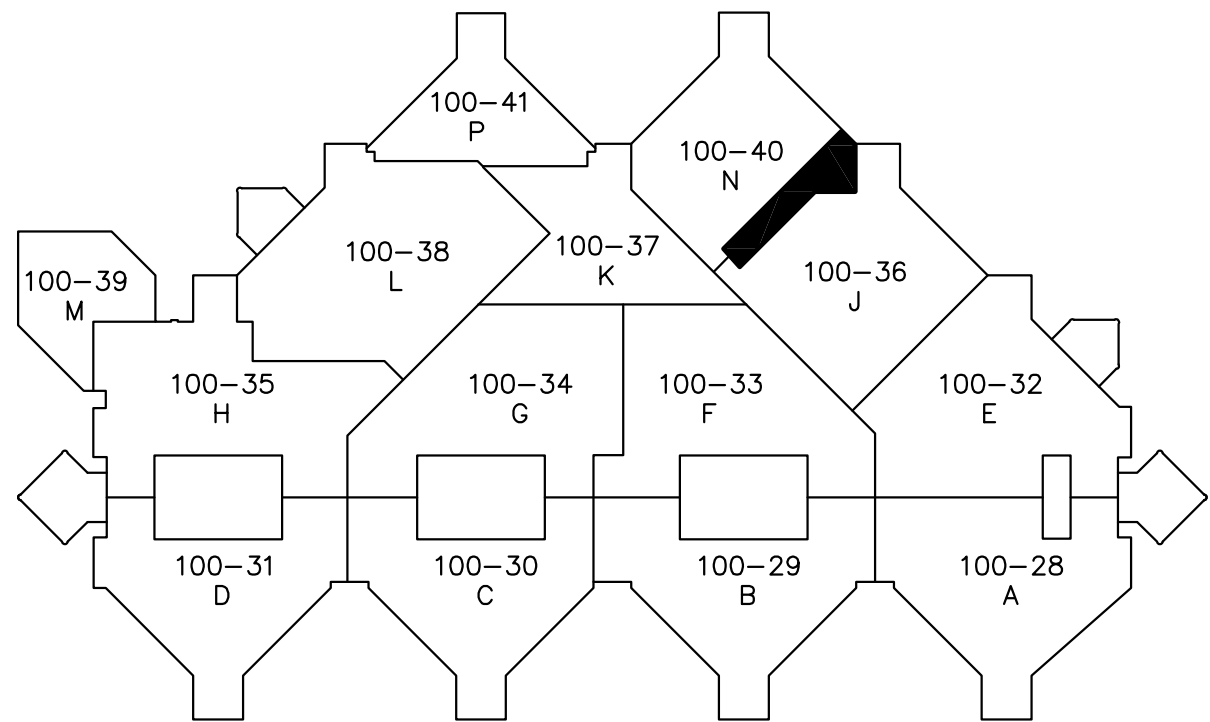
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one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

- GENERAL NOTES**
- REFER TO THE MECHANICAL AND/OR PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS AND ADDITIONAL INFORMATION REGARDING WHICH EQUIPMENT IS TO BE DEMOLISHED.
 - TO BEGIN THE DEMOLITION INDICATES THAT THE CONTRACTOR ACCEPTS THE EXISTING CONDITIONS.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO EXISTING ELECTRICAL EQUIPMENT OR DEVICES WHICH REMAIN ACTIVE. CONTRACTOR SHALL EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS AS SPECIFIED.
 - VERIFY AND/OR DETERMINE EXISTING CIRCUITING ARRANGEMENTS FOR EQUIPMENT TO BE REMOVED BEFORE DE-ENERGIZING ANY CIRCUITS. CONTRACTOR SHALL CIRCUIT TRACE TO DETERMINE PANEL AND CIRCUIT CONNECTIONS FOR ALL EXISTING EQUIPMENT AND/OR CIRCUITS THAT ARE TO BE REMOVED IN PREPARATION FOR THE RENOVATION.
 - REMOVE ALL EXISTING DEVICES/EQUIPMENT THAT ARE NOT TO BE UTILIZED AFTER THE PROJECT IS COMPLETED. LIGHTING CIRCUITS AND A FEW GENERAL PURPOSE RECEPTACLE CIRCUITS ARE TO BE REUSED. ALL OTHER CIRCUITS SHALL BE REMOVED BACK TO ITS SOURCE. ALL MATERIALS AND EQUIPMENT NOT TO BE REUSED (UNLESS OWNER ELECTS TO RETAIN) IN THE PROJECT BECOMES THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES.
 - REMOVE EXISTING ELECTRICAL DEVICES WHERE EXISTING WALLS ARE BEING REMOVED.
 - REFER TO ARCHITECTURAL PLANS FOR AREAS WHERE CEILING IS BEING DEMOLISHED. DEMOLISH LIGHTING FIXTURES AND ELECTRICAL CEILING MOUNTED DEVICES UNLESS INDICATED OTHERWISE.
 - PROPERLY DISPOSE OF ANY HARMFUL COMPONENTS AND SUBSTANCES (BATTERY PACKS).
 - PLAN ANY NECESSARY POWER OUTAGES. CONTRACTOR SHALL PREPARE A WRITTEN PROCEDURE TO BE FOLLOWED DURING THE OUTAGE TO COMPLETE THE PLANNED WORK. CONTRACTOR SHALL PROVIDE DETAILS TO THE OWNER OF WHERE POWER DISRUPTION WILL OCCUR, AND SHALL COORDINATE WITH THE OWNER TO DETERMINE WHEN THE POWER DISRUPTION IS ACCEPTABLE.
 - CONTRACTOR SHALL NOTE ANY EXISTING FIRE RATING/PREVENTION METHODS EMPLOYED AT EACH AREA OF THE SCOPE OF WORK - FIRE CAULK, LIGHTING FIXTURE "FIRE BOXES", ETC. THE CONTRACTOR SHALL MAINTAIN AND/OR RESTORE THE ORIGINAL FIRE RATING (USING SAME METHOD AS ORIGINALLY PROVIDED) AT EACH LOCATION AFFECTED BY THE WORK PERFORMED IN THIS RENOVATION. FINAL INSTALLATION APPROVAL SHALL BE BY THE AHJ AND OWNER.
 - ALL EXISTING PANELBOARDS AND TRANSFORMERS ARE TO REMAIN UNLESS NOTED OTHERWISE.
 - CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT WHICH REMAIN OR ARE TO BE REUSED. IF ANY MATERIAL, EQUIPMENT, AND/OR FINISHES WITHIN THE SCOPE OF WORK IS DAMAGED, THEN RESTORE IT INTO WORKING CONDITION THAT IS ACCEPTABLE BY THE AHJ AND OWNER. IF NECESSARY, THE CONTRACTOR SHALL EMPLOY CRAFTS THAT WERE ORIGINALLY USED TO PERFORM THE EXISTING WORK.
 - UPON COMPLETION OF RENOVATION, CONTRACTOR SHALL PROVIDE CONTINUITY OF ANY CIRCUITS THAT ARE TO REMAIN THAT WERE INTERRUPTED DUE TO THE DEMOLITION. PROVIDE "AS-BUILT" DRAWINGS AND ACCURATELY DENOTE EACH CIRCUIT PART OF THE SCOPE OF WORK. UPDATE ALL PANELBOARD/SWITCHBOARD DIRECTORIES AS REQUIRED.

1 DEMOLITION PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"



CONSTRUCTION DOCUMENTS SUBMISSION

CONSULTANTS: GLMV Architecture 1160 Dairy Ashford, Suite 200 Houston, TX 77059 Tel: (281) 870-1514 Fax: (281) 870-1724 www.glmv.com		 Garner-Fritzsche ENGINEERING, INC. 6565 West Loop South, Suite 500, Dallas, TX 77401 713.432.1422 - Fax 713.432.1253 www.garnerfritzsche.com Texas Reg. No. F-5712 GFE Project No. 13064		 ARCHITECT/ENGINEERS: Atriax GROUP		Drawing Title DEMOLITION PLAN ELECTRICAL Approved Project Director - VAPAHCS PLANNING AND ENGINEERING		Project Title 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line Location MEDICAL CENTER HOUSTON TX Date 09/30/2014 Checked AEF Drawn LEE		Project Number 580-13-403 Building Number B-100 Drawing Number ED100 Dwg. 26 of 40		Office of Construction and Facilities Management Department of Veterans Affairs	
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GENERAL NOTES

- ## ALTERNATES

REFER TO ARCHITECTURAL PLANS FOR FOR ALTERNATE DEFINITIONS

ALTERNATE # 1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE ALL ELECTRICAL DEVICES. PROVIDE (2) 1X4 LIGHT FIXTURES FOR GENERAL ILLUMINATION.

ALTERNATE # 2 - IN ADDITION TO ALTERNATE #1, PATIENT ROOM 1A-512 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE ALL ELECTRICAL DEVICES. PROVIDE (2) 1X4 LIGHT FIXTURES FOR GENERAL ILLUMINATION.

TOILET 503A TO BE TURNED INTO A STORAGE ROOM.
REMOVE ELECTRICAL DEVICES. PROVIDE (1) 1X4 LIGHT
FIXTURE FOR GENERAL ILLUMINATION.

ALTERNATE # 3 - IN ADDITION TO ALTERNATE #1 AND #2, REMOVE CEILING AND PROVIDE NO FINISHES TO PATIENT ROOM 1A-511 (TURNED STORAGE ROOM IN ALT #1), PATIENT ROOM 1A-512 (TURNED STORAGE ROOM IN ALT #2), TOILET 503A (TURNED STORAGE ROOM IN ALT #2). LIGHT FIXTURES SHALL BE SUSPENDED.

KEYED NOTES

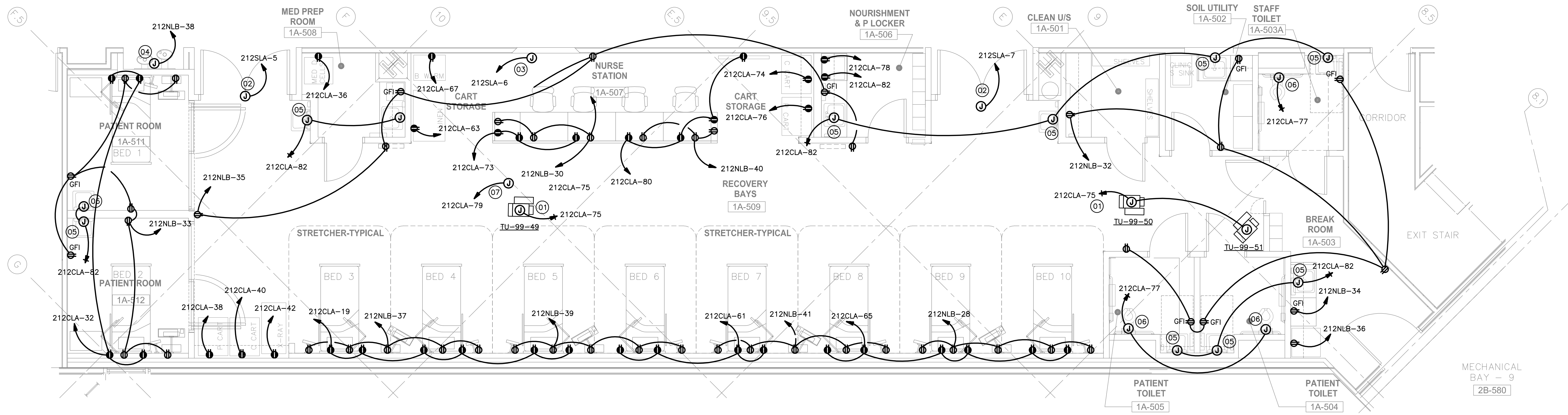
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CONSTRUCTION DOCUMENTS SUBMISSION

Revisions:		Date	CONSULTANTS:		 GLMV Architecture 1160 Dallas Avenue, Suite 200 Houston, TX 77057 Tel: (281) 876-1816 Fax: (281) 876-1734 houston@glmv.com	 Garner-Fritzsche ENGINEERING, INC. 6565 West Loop South, Suite 560, Bellaire, TX 77401 713.432.1422 - Fax 713.432.1253 www.garnerfritzsche.com Texas Reg. No. F-5712 GFE Project No. 13064		ARCHITECT/ENGINEERS:			Drawing Title LIGHTING PLAN ELECTRICAL		Project Title 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line		Project Number 580-13-403		Office of Construction and Facilities Management
	Approved: Project Director - VAPAHCS PLANNING AND ENGINEERING		Location MEDICAL CENTER HOUSTON TX					Drawing Number E101									
	Date 09/30/2014		Checked AEF					Drawn LEE			Dwg. 27 of 40						

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

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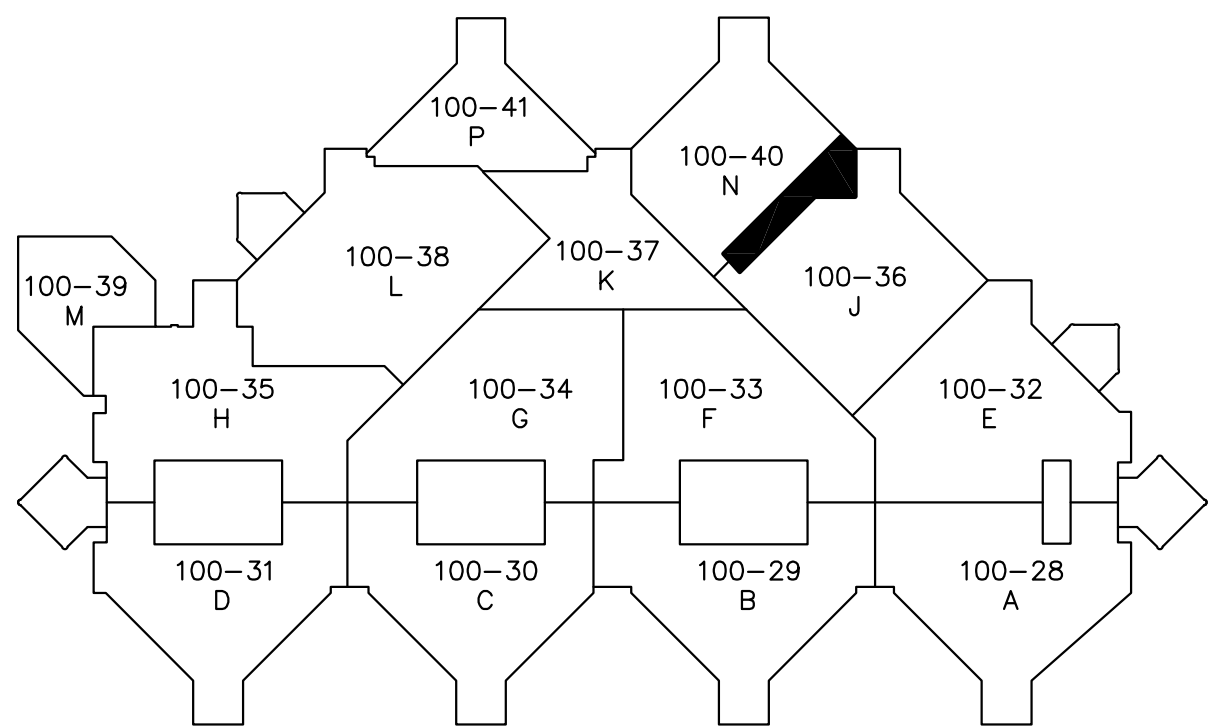
1 POWER PLAN - ELECTRICAL
SCALE: 1/4" = 1'-0"

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION

- GENERAL NOTES**
- REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET FOR ADDITIONAL INFORMATION.
 - REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - REFER TO THE MECHANICAL AND/OR PLUMBING PLANS FOR EXACT EQUIPMENT LOCATIONS.
 - ALL PANELBOARDS ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
 - PROVIDE PERMANENT AFFIXED CIRCUIT NUMBERS ON ALL ELECTRICAL RECEPTACLES THAT ARE PART OF THE SCOPE OF WORK UNLESS NOTED OTHERWISE.
 - RECEPTACLE/OUTLET HEIGHTS AND ORIENTATION ARE NOT INTENDED TO BE SHOWN ON THESE PLANS. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR ALL RECEPTACLE/OUTLET HEIGHTS AND ORIENTATION PRIOR TO INSTALLATION. THE ARCHITECTURAL DRAWINGS AND OWNER SPECIFICATIONS SHALL SUPERSEDE ANY HEIGHT DIMENSIONS THAT ARE SHOWN ON THESE PLANS.
 - ALL RECEPTACLES WITHIN 6FT OF THE OUTSIDE EDGE OF A SINK OR WATER SOURCE (PIPE, HOSE, ETC.) SHALL BE GFCI AND COMPLY WITH NEC 210.8.
 - PROVIDE TAMPER RESISTANCE RECEPTACLES IN ALL PSYCHIATRIC, PEDIATRIC, AND PATIENT CARE AREAS.
 - ALL RECEPTACLES IN PATIENT CARE AREAS SHALL BE HOSPITAL GRADE. ONLY SIMPLEX GROUNDING OR DUPLEX GROUNDING DEVICES SHALL BE INSTALLED UNLESS NOTED OTHERWISE.
 - BRANCH CIRCUITS IN PATIENT CARE AREAS SHALL HAVE REDUNDANT GROUND SYSTEMS IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE. PROVIDE A COPPER GROUND CONDUCTOR IN ALL BRANCH CIRCUIT CONDUITS.
 - IN AREAS USED FOR PATIENT CARE, THE GROUNDING TERMINALS FOR ALL RECEPTACLES AND ALL NON-CURRENT CARRYING CONDUCTIVE SURFACES OPERATING AT OVER 100 VOLTS SHALL BE GROUNDED BY AN INSULATED COPPER CONDUCTOR. REFER TO NEC 517.3 FOR ADDITIONAL INFORMATION.
 - COORDINATE THE LOCATION, MOUNTING HEIGHT, AND ORIENTATION OF ALL ELECTRICAL DEVICES AND OUTLETS WITH ALL OTHER TRADES PRIOR TO ROUGH-IN AND/OR INSTALLATION.
 - REFER TO THE MECHANICAL DRAWINGS TO VERIFY EQUIPMENT REQUIRING SINGLE POINT CONNECTION. IF SINGLE POINT CONNECTION IS PRESENT, CONFIRM EXACT LOCATION OF CONNECTION WITH MANUFACTURER.
 - CONTRACTOR SHALL EXTEND ELECTRICAL WIREWAY IN INTERSTITIAL SPACE TO ABOVE CONSTRUCTION AREA AS REQUIRED.

- ALTERNATES**
- REFER TO ARCHITECTURAL PLANS FOR ALTERNATE DEFINITIONS.
- ALTERNATE # 1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE ALL ELECTRICAL DEVICES. PROVIDE 1 RECEPTACLE FOR GENERAL USE CONNECTED TO AVAILABLE 20A-120V RECEPTACLE CIRCUIT FROM PANEL 212NLB.
- ALTERNATE # 2 - IN ADDITION TO ALTERNATE #1, PATIENT ROOM 1A-512 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. PROVIDE 1 RECEPTACLE FOR GENERAL USE CONNECTED TO AVAILABLE 20A-120V RECEPTACLE CIRCUIT FROM PANEL 212NLB.
- TOILET 503A TO BE TURNED INTO A STORAGE ROOM. REMOVE ELECTRICAL DEVICES. PROVIDE 1 RECEPTACLE FOR GENERAL USE CONNECTED TO AVAILABLE 20A-120V RECEPTACLE CIRCUIT FROM PANEL 212NLB.
- ALTERNATE # 3 - IN ADDITION TO ALTERNATE #1 AND #2, REMOVE CEILING AND PROVIDE NO FINISHES TO PATIENT ROOM 1A-511 (TURNED STORAGE ROOM IN ALT #1), PATIENT ROOM 1A-512 (TURNED STORAGE ROOM IN ALT #2), TOILET 503A (TURNED STORAGE ROOM IN ALT #2).

- KEYED NOTES**
- POWER FOR TERMINAL UNIT CONTROLS. PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS. COORDINATE WITH MECHANICAL DRAWINGS FOR EXACT LOCATION.
 - POWER FOR DOOR HARDWARE (PUSH BUTTONS, DOOR RELEASE, DOOR HOLDER, CARD READER, ETC.). PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS.
 - POWER FOR MEDGAS ALARM PANEL. PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS. COORDINATE WITH MEDGAS DRAWINGS FOR EXACT LOCATION.
 - POWER FOR DRINKING FOUNTAIN. PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS.
 - POWER FOR FAUCET SENSORS. PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS.
 - POWER FOR FLUSH SENSORS. PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS.
 - POWER FOR CAMERA POWER SUPPLY. PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS.



Revisions	Date

CONSULTANTS:

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GFE Project No. 13064



ARCHITECT/ENGINEERS:

Atriax
GROUP

Drawing Title
POWER PLAN
ELECTRICAL

Approved Project Director
-
VAPAHCS PLANNING AND ENGINEERING

Project Title
580-13-403: Renovate 2nd
Floor B-100 for Diagnostic and
Therapy Care Line

Location
MEDICAL CENTER HOUSTON TX

Date
09/30/2014

Checked
AEF

Drawn
LEE

Project Number
580-13-403

Building Number
B-100

Drawing Number
E201

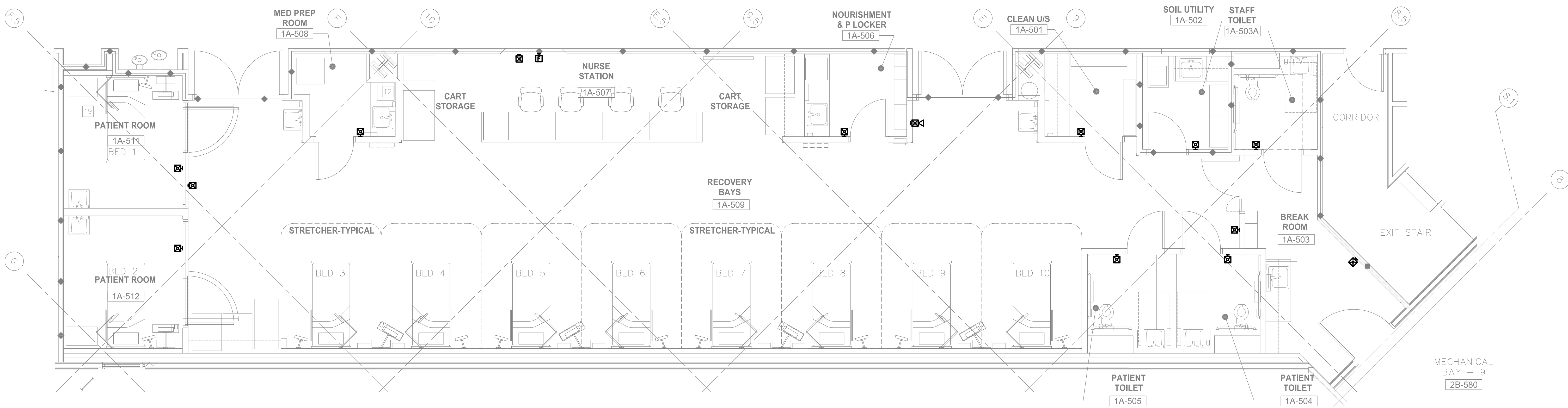
Dwg. 28 of 40

**Office of
Construction
and Facilities
Management**

**Department of
Veterans Affairs**

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one inch = one foot
three quarters inch = one foot
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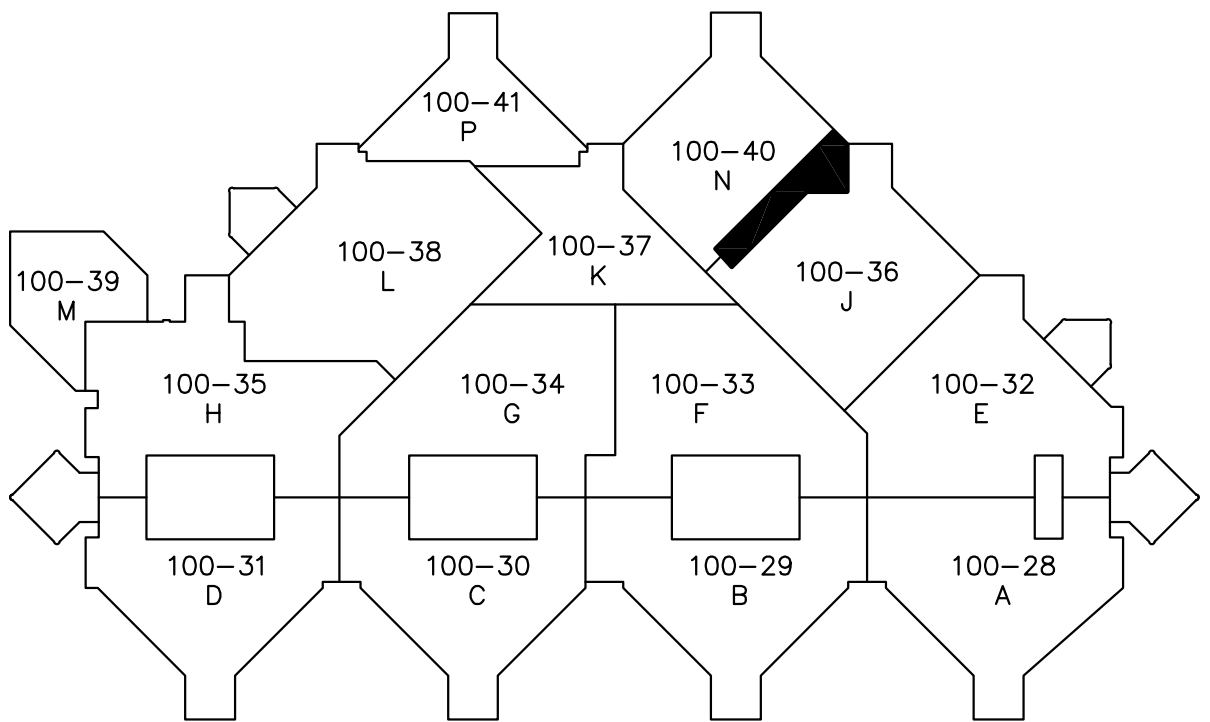
1 SPECIAL SYSTEMS PLAN - ELECTRICAL

SCALE: 1/4" = 1'-0"

RENOVAITON LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION

GENERAL FIRE ALARM NOTES	
1.	REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET FOR ADDITIONAL INFORMATION.
2.	ALL FIRE ALARM DEVICES (DETECTORS, VISUAL STROBES, HORNS, ETC.) ARE SHOWN SOLELY FOR THE PURPOSE OF COMMUNICATING A GENERAL INTENT; DO NOT USE THIS DRAWING FOR EXACT DEVICE QUANTITIES OR LOCATIONS. OBTAIN THE SERVICES OF THE FIRE ALARM SYSTEM SUB-CONTRACTOR FAMILIAR WITH THE EXISTING BUILDING SYSTEM AS IDENTIFIED BY THE BUILDING OWNER. THE FIRE ALARM SUB-CONTRACTOR SHALL INDICATE THE NEEDED CODE REQUIRED DEVICE QUANTITIES. PRIOR TO SUBMITTAL, THE FIRE ALARM SUB-CONTRACTOR SHALL PREPARE DRAWINGS INDICATING THE EXACT DEVICE QUANTITIES, TYPES, AND LOCATIONS. PROVIDE ALL NECESSARY DETECTORS, STROBES, HORNS, AND ALARMS AS NEEDED FOR A CODE COMPLIANT FIRE ALARM SYSTEM.
3.	MOUNTING HEIGHTS FOR ALL DEVICES SHALL BE PER NFPA 72 AND AHJ. CONFIRM THE EXACT MOUNTING HEIGHTS WITH THE BUILDING OWNER'S STANDARDS.
4.	PROVIDE ALL NECESSARY WIRING, CONNECTIONS, AND TERMINATIONS FROM THE DEVICES TO THE FIRE ALARM SYSTEM CONTROL PANEL. ALL WIRING SHALL BE IN CONDUIT. PROVIDE ALL NECESSARY PROGRAMMING SO EACH DETECTOR WILL DETECT, NOTIFY AND ALARM PROPERLY.
5.	THE FIRE ALARM SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE SYSTEM FOR PROPER OPERATION UPON COMPLETION OF INSTALLATION.
6.	RAISE, OFFSET, AND LOWER CONDUCTORS AND CONDUIT AS REQUIRED.

ALTERNATES
REFER TO ARCHITECTURAL PLANS FOR FOR ALTERNATE DEFINITIONS.
ALTERNATE # 1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE ALL ELECTRICAL DEVICES. FIRE ALARM STROBE SHALL REMAIN.
ALTERNATE # 2 - IN ADDITION TO ALTERNATE #1, PATIENT ROOM 1A-512 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE ALL ELECTRICAL DEVICES. FIRE ALARM STROBE SHALL REMAIN.
TOILET 503A TO BE TURNED INTO A STORAGE ROOM. REMOVE ELECTRICAL DEVICES. REMOVE ALL ELECTRICAL DEVICES. FIRE ALARM STROBE SHALL REMAIN.
ALTERNATE # 3 - IN ADDITION TO ALTERNATE #1 AND #2, REMOVE CEILING AND PROVIDE NO FINISHES TO PATIENT ROOM 1A-511 (TURNED STORAGE ROOM IN ALT #1), PATIENT ROOM 1A-512 (TURNED STORAGE ROOM IN ALT #2), TOILET 503A (TURNED STORAGE ROOM IN ALT #2).



CONSTRUCTION DOCUMENTS SUBMISSION

CONSULTANTS: GLMV Architecture 1160 Dairy Ashford, Suite 200 Houston, TX 77059 Tel: (281) 870-1514 Fax: (281) 870-1724 www.glmv.com		ARCHITECT/ENGINEERS: Atriax GROUP		Drawing Title SPECIAL SYSTEMS PLAN ELECTRICAL Approved Project Director - VAPAHCS PLANNING AND ENGINEERING		Project Title 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line Location MEDICAL CENTER HOUSTON TX Date 09/30/2014 Checked AEF Drawn LEE		Project Number 580-13-403 Building Number B-100 Drawing Number E301 Dwg. 29 of 40		Office of Construction and Facilities Management Department of Veterans Affairs	
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PLUMBING FIXTURE SCHEDULE

ID	ITEM	MANUFACTURER/ MODEL NO.	FIXTURE SERVICE	REMARKS
(WC-1)	WATER CLOSET WALL MOUNTED SENSOR OPERATED FLUSH VALVE BARRIER FREE	AMERICAN STANDARD MODEL NO. 3351.001 'AFWALL' WALL MOUNTED VITREOUS CHINA WATER CLOSET, 1.28 GPM, WITH RIM AT 17 1/2" A.F.F. FLUSH VALVE: SLOAN MODEL 111-1.28 ES-S TMO 'OPTIMA' SENSOR FLUSH VALVE CONTROL. JR SMITH CARRIER	1" CW 4" WASTE 2" VENT	RE: ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. RE: MANUFACTURER'S INSTALLATION REQUIREMENTS. PROVIDE SLOAN EL-154 TRANSFORMER MOUNTED IN J-BOX ABOVE CEILING FOR UP TO 10 FLUSH VALVES. RE: ELECTRICAL DWGS FOR POWER
(LAV-1)	LAVATORY WALL MOUNTED SENSOR FAUCET GOOSENECK SPOUT GOOSENECK SPOUT BARRIER-FREE	AMERICAN STANDARD MODEL NO. 0356.015 LUCERNE LAVATORY, 8" CENTERS. FURNISH W/JAY R. SMITH #0710 FLOOR-MOUNTED LAVATORY SUPPORT W/CONCEALED ARMS. FAUCET: AMERICAN STANDARD EAF-700-ISM DUAL INFRA-RED GOOSENECK WITH INTEGRAL SPOUT TEMPERATURE MIXER. TRIM: MCGUIRE #155WC GRID DRAIN W/1 1/4" TAILPIECE, OFFSET FOR WHEELCHAIR USE, #8872 - 1 1/4" P-TRAP, #H-2165 SUPPLY STOPS.	1/2" CW 1/2" HW 2" WASTE 2" VENT	RIGID MTD 5 1/4" GOOSENECK SPOUT W/INTEGRAL 2.2 GPM LAMINAR FLOW SPOUTLL; PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP: BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO, INC., HANDI LAV GUARD, MCGUIRE PRO-WRAP. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT. PROVIDE SLOAN EL-154 TRANSFORMER MOUNTED IN J-BOX ABOVE CEILING FOR UP TO 3 FAUCETS. RE: ELECTRICAL DWGS FOR POWER
(SK-1)	SINGLE COMPARTMENT SINK GOOSENECK SPOUT WRISTBLADE HANDLES BARRIER FREE	ELKAY MODEL LRAD1918, 18 GAUGE STAINLESS STEEL SELF-RIMMING SINK; REAR-CENTER DRAIN, 6" DEEP. FAUCET: AMERICAN STANDARD EAF-700-ISM DUAL INFRA-RED GOOSENECK WITH INTEGRAL SPOUT TEMPERATURE MIXER. TRIM: MCGUIRE NO. 151A DRAIN WITH 1 1/2" TAILPIECE, #1151AWC, WITH OFFSET #8089 P-TRAP, #H-2165 SUPPLY STOPS.	1/2" CW 1/2" HW 2" WASTE 2" VENT	SINGLE COMPARTMENT SINK 18"x19"x6"DEEP. RIGID MTD 5 3/8" GOOSENECK SPOUT W/INTEGRAL 1.5 GPM LAMINAR FLOW CONTROL. PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP: BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO, INC., HANDI LAV GUARD, MCGUIRE PRO-WRAP. PROVIDE SLOAN EL-154 TRANSFORMER MOUNTED IN J-BOX ABOVE CEILING FOR UP TO 3 FAUCETS. RE: ELECTRICAL DWGS FOR POWER
(BDF-1)	BI-LEVEL DRINKING FOUNTAIN BARRIER FREE	HALSEY-TAYLOR OVL-2 BARRIER-FREE, BI-LEVEL STAINLESS STEEL DRINKING FOUNTAIN. CARRIER: J.R. SMITH FLOOR MOUNTED FOUNTAIN CARRIER.	1/2" CW 2" WASTE 2" VENT	STAINLESS STEEL, ELECTRIC WATER COOLER, COOLING CAPACITY TO BE 8.0 GALLONS PER HOUR FROM 80 DEGREE F. INLET WATER TEMPERATURE TO 50 DEGREE F. OUTLET WATER TEMPERATURE IN 90 DEGREE F. AMBIENT, 1/5 H.P.,115 VOLT 60 HZ.
(CS-1)	CLINICAL SINK WALL MOUNTED FLUSH VALVE PEDAL VALVES BEDPAN WASHER	AMERICAN STANDARD CLINIC SERVICE SINK MODEL NO. 9512.999.020 WITH CAST METAL LOOSE STRAINER, FURNISH W/SLOAN ROYAL #117BH FLUSH VALVE; CHICAGO FAUCET #814 WITH FORK BRACE AND STOPS, 6" WRISTBLADE CONTROL HANDLES. #910G-777-19K BEDPAN WASHER, SELF CLOSING, DOUBLE PEDAL VALVE, MOUNTING HOOK, EXTENDED HOSE, AND ELEVATED VACUUM BREAKER. J.R. SMITH CARRIER.	1" CW 3/4" HW 4" WASTE 2" VENT	MOUNT VACUUM BREAKER 7"-6" AFF. PROVIDE (3) OPTIONAL AMERICAN STANDARD 7832512.075 RIM GUARDS.
(RB-1)	RECESSED VALVE BOX	GUY GRAY MODEL NO. BIM875, 18 GAUGE STEEL BOX AND COVER. 1/4" COMPRESSION OUTLET, QUARTER TURN VALVE.	1/2" CW	RE: ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. WHEN INSTALLED WITHIN CASEWORK, PROVIDE RUBBER GROMMET THRU COUNTER AT EACH PIECE OF EQUIPMENT.

PIPING MATERIALS SCHEDULE

PLUMBING SYSTEM	PLUMBING MATERIAL DESCRIPTION
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON PIPE, W/ NO-HUB JOINTS
VENT PIPING	STANDARD WEIGHT CAST IRON PIPE, W/ NO-HUB JOINTS
DOMESTIC WATER PIPING	TYPE 'L' COPPER TUBING, W/ WROUGHT COPPER FITTINGS
MEDICAL GAS PIPING	ASTM B819 TYPE 'K' COPPER TUBING, W/ BRAZED WROUGHT COPPER FITTINGS
FIRE PROTECTION PIPING	SCHEDULE 40 BLACK STEEL PIPE .W/ CAST IRON FITTINGS

MED GAS ZONE EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	EQUIPPED WITH	LOCATION (*)
(ZVB-3)	RECESSED ZONE VALVE BOX	02, A, VAC	CORRIDOR
(MQ-1)	RECESSED QUICK-CONNECT	2-02, 1-A, 3-VAC, 3-SLIDE	PER PLANS
(AP-3)	AREA ALARM PANEL	3 - SIGNAL	NURSE STATION

(*) CONTRACTOR SHALL CLOSELY COORDINATE INSTALLATION OF ZONE VALVE BOXES, ALARMS, AND
MED GAS OUTLETS AS REQUIRED TO ACCOMMODATE FINISHED APPEARANCE, MOUNTING HEIGHT
AND ARRANGEMENT PER ARCHITECTURAL DRAWINGS.

SHOCK ARRESTOR SCHEDULE

FIXTURE UNITS	SIZE	P.D.I. MODEL NUMBER
1-11	1/2" NPT	SC-500
12-32	3/4" NPT	SC-750
33-60	1" NPT	SC-1000
61-113	1 1/4" NPT	SC-1250
114-154	1 1/2" NPT	SC-1500
155-330	2" NPT	SC-2000

NOTES:

1. ALL FIXTURE WATER SUPPLIES SHALL BE INSTALLED WITH
APPROPRIATELY SIZED ARRESTORS IN COMPLIANCE WITH
MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

PLUMBING DEMOLITION NOTES

- CONTRACTOR SHALL REMOVE EXISTING SERVICES SUCH AS WATER, WASTE &
VENT PIPING SERVING FIXTURES AND/OR CONNECTIONS TO EQUIPMENT WHICH
ARE SHOWN ON THE DRAWINGS TO BE REMOVED OR RELOCATED. PERMANENTLY
SEAL AND CAP SERVICES NEXT TO MAIN SERVICE LINES ABOVE CEILINGS, IN
WALLS, OR BELOW FLOORS UNLESS NOTED OTHERWISE. EXISTING PLUMBING
FIXTURES AND RELATED ITEMS WHICH ARE TO BE REMOVED SHALL BE SUBMITTED
TO THE OWNER. ITEMS THE OWNER WISHES TO RETAIN SHALL BE DELIVERED TO
STORAGE WHERE DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO
REMAIN SHALL BE LEGALLY DISPOSED OF.
- TEMPORARY SHUTDOWN OF EQUIPMENT AND SERVICES THAT ARE ASSOCIATED
WITH THIS SCOPE OF WORK SHALL BE COORDINATED WITH THE OWNER PRIOR
TO THE SHUTDOWN. PROVIDE OWNER WITH ESTIMATED DURATION OF SHUT DOWN.
- CONTRACTOR SHALL ENSURE NO DOMESTIC COLD AND/OR HOT WATER DEAD
LEGS EXIST WITHIN SCOPE OF PLUMBING DEMOLITION.
- EXISTING FIXTURES, EQUIPMENT, SERVICES, AND CONNECTIONS SHALL BE
VERIFIED FOR EXACT LOCATIONS AND SIZE. IF DEVIATIONS ARE FOUND,
CONTRACTOR SHALL BRING THEM TO THE ARCHITECT'S ATTENTION FOR
COORDINATION.
- EXISTING FIXTURES, EQUIPMENT, SERVICES, AND CONNECTIONS WHICH ARE
DAMAGED DURING CONSTRUCTION SHALL BE REWORKED OR REPLACED AS
REQUIRED TO PROVIDE ORIGINAL OPERATION.
- PENETRATIONS THROUGH EXISTING PARTITIONS AND FLOORS SHALL BE SLEEVED
AND SEALED TO MAINTAIN RATING OF EXISTING PARTITION AND FLOOR RATING.
- EXISTING PLUMBING SERVICES NOT SHOWN ON DRAWINGS SHALL REMAIN AS IS
UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COORDINATE THE INTERRUPTION OF EXISTING SERVICES WITH
THE OWNER PRIOR TO START OF DEMOLITION WORK.

PLUMBING GENERAL NOTES

- OBTAIN ALL NECESSARY PERMITS, AND COMPLY WITH ALL NATIONAL, STATE
AND MUNICIPAL LAWS, CODES AND ORDINANCES RELATING TO BUILDING AND
PUBLIC SAFETY.
- PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND INSTALLATION
UNTIL COMPLETION OF CONSTRUCTION.
- REMOVE ALL EXCESS MATERIAL AND DEBRIS AND CLEAN ALL EQUIPMENT UPON
COMPLETION OF WORK. TOUCH UP WITH PAINT WHERE REQUIRED.
- ALL SYSTEMS SHALL BE COMPLETE AND WORKING AT COMPLETION OF CONSTRUCTION.
- CONTRACTOR SHALL VISIT JOB SITE AND VERIFY SIZE AND LOCATION OF ALL EXISTING
ITEMS AND CONDITIONS.
- ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH
DIELECTRIC UNIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- COORDINATE WATER, WASTE, AND VENT PIPING WITH OTHER TRADES TO AVOID SPACING
AND/OR ROUTING CONFLICTS.
- CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING AND NEW
MECHANICAL AND ELECTRICAL ITEMS.
- SUBMIT SHOP DRAWINGS OF PROPOSED NEW DEVICES PRIOR TO INSTALLATION.
- FIXTURES, EQUIPMENT AND CONNECTIONS, AND PIPING SHALL BE FURNISHED AND
INSTALLED TO MEET OR EXCEED STATE AND LOCAL CODES AND REQUIREMENTS.
- FURNISH AND INSTALL SHOCK ARRESTORS IN COLD WATER LINES AT CONNECTIONS TO
FLUSH VALVES AND QUICK CLOSING VALVES AND AT ALL HOT AND COLD WATER
CONNECTIONS TO FIXTURES.
- DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR
COORDINATING EXACT ROUTING OF ALL SERVICES WITH EXISTING CONDITIONS AND WITH
ALL OTHER TRADES.
- ALL PROPOSED SAWCUT LOCATIONS THROUGH EXISTING FLOOR SLAB ARE TO BE
COORDINATED WITH AND APPROVED BY THE OWNER PRIOR TO SAWCUTTING.
SAWCUTTING PROCEDURES, METHODS, AND SCOPE SHALL NOT CONFLICT WITH PROJECT
SPECIFICATIONS AND/OR CODE DRIVEN EXCAVATION OR BACKFILL REQUIREMENTS
ASSOCIATED WITH UNDERGROUND PIPE INSTALLATION.
- CONTRACTOR SHALL NOTIFY OWNER OF ANY REQUIRED SHUT DOWNS AND
COORDINATE THESE WITH OWNER. DOWNTIME SHALL BE HELD TO A MINIMUM.

FIRE PROTECTION NOTES

- THE SPRINKLER CONTRACTOR SHALL MODIFY THE EXISTING AUTOMATIC
SPRINKLER SYSTEM INFRASTRUCTURE FOR THE RENOVATION TO FULLY
SPRINKLE THE ENTIRE PROJECT SCOPE. CONTRACTOR SHALL CONFIRM
SPRINKLER HEAD STYLES WITH OWNER'S REPRESENTATIVE PRIOR TO
INSTALLATION. SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN
ACCORDANCE WITH VAMC BUILDING STANDARDS, NFPA 13, AND ALL
AUTHORITIES HAVING JURISDICTION.
- THE ENTIRE RENOVATION AND ADDITION SHALL BE FURNISHED WITH A
100% HYDRAULICALLY CALCULATED AUTOMATIC WET PIPE SPRINKLER
SYSTEM. SYSTEM(S) SHALL BE HYDRAULICALLY CALCULATED UTILIZING
DESIGN DENSITIES AND REMOTE AREA AS RECOMMENDED BY NFPA. ALL
SPRINKLER HEADS SHALL BE FULLY CONCEALED, QUICK RESPONSE TYPE.
- ALL MATERIALS AND EQUIPMENT SHALL BE FM APPROVED AND UL LISTED.
- SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS PREPARED BY
A LICENSED SPRINKLER CONTRACTOR SHALL BE SUBMITTED TO THE OWNER,
ARCHITECT, OWNERS INSURING AGENCY, AND ALL REQUIRED AUTHORITIES
HAVING JURISDICTION FOR REVIEW AND APPROVAL. SUBMITTED SHOP
DRAWINGS AND CALCULATIONS SHALL BEAR THE APPROVAL STAMP OF ALL
REQUIRED REVIEWING AUTHORITIES.
- COORDINATE NEW AND EXISTING SPRINKLER PIPING WITH NEW INSTALLATION
OF DUCTWORK, CEILINGS, LIGHT FIXTURES, AND ALL OTHER TRADES. THIS
INCLUDES ALL MAINS AND BRANCH PIPING.
- VISIT JOB SITE PRIOR TO SUBMISSION OF BID TO DETERMINE ALL EXISTING
CONDITIONS AND HOW THEY WILL RELATE WITH THE NEW CONSTRUCTION.


PLUMBING SYMBOLS

—D—	DRAIN PIPING
—DSP—	DRY SPRINKLER PIPE
—F—	FIRE LINE
—PA—	PRE-ACTION SPRINKLER PIPE
—G—	NATURAL GAS PIPING
—P—	PROPANE GAS PIPING
—PSS—	PUMPED SANITARY SEWER
—PSD—	PUMPED STORM SEWER
—SP—	SPRINKLER LINE
—W—	SANITARY SEWER ABOVE SLAB
—W—	SANITARY SEWER BELOW SLAB
—SV—	SANITARY VENT
—	COLD WATER
—	HOT WATER
—	HOT WATER RETURN
—SW—	SOFTENED WATER
—>—	DIRECTION OF FLOW
—>—	DIRECTION OF SLOPE DOWN
—<—	DROP IN PIPE
—<—	RISE IN PIPE
—<—	GATE VALVE
—<—	BALL VALVE
—<—	CHECK VALVE
—<—	SUPERVISED VALVE WITH FLOW SWITCH
—<—	PLUG VALVE / GAS COCK
—<—	BUTTERFLY VALVE
—<—	BALANCING VALVE
—<—	PIPE UNION
—<—	PRESSURE CONTROL VALVE
—<—	3-WAY VALVE
—<—	SOLENOID VALVE
—<—	FLOW SWITCH
—<—	PRESSURE GAUGE WITH GAUGE COCK
—<—	THERMOMETER
—<—	FLOOR DRAIN
—<—	T & P RELIEF VALVE
—<—	STRAINER
—CO —	END OF LINE CLEANOUT
—FCO#—	FLOOR CLEANOUT
—WCO —	WALL CLEANOUT
—#—	CAP

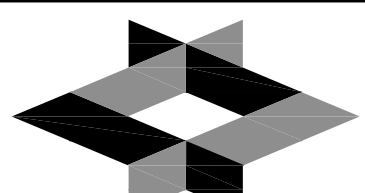
DRAWING INDEX

NUMBER	DRAWING TITLE
P000	INFORMATION SHEET - PLUMBING
PD100	DEMOLITION PLAN - PLUMBING
PD101	DEMOLITION INTERSTITIAL PLAN - PLUMBING
P200	INTERSTITIAL 1st FLOOR PLAN - PLUMBING
P201	FLOOR PLAN - PLUMBING
P301	FLOOR PLANS - MED GAS AND FIRE PROTECTION
P401	DETAILS - PLUMBING

CONSTRUCTION DOCUMENTS SUBMISSION

Drawing Title INFORMATION SHEET PLUMBING	Project Title 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line			Project Number 580-13-403	Office of Construction and Facilities Management
				Building Number B-100	
Approved Project Director - VAPAHCS PLANNING AND ENGINEERING	Location MEDICAL CENTER HOUSTON TX			Drawing Number P000	
	Date 09/30/2014	Checked AEF	Drawn CSC	Dwg. 31 of 40	
					Department of Veterans Affairs

CONSULTANTS:



1100 Dairy Ashford, Suite 200
Houston, TX 77059
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www.glmv.com





6565 West Loop South, Suite 500, Dallas, TX 77401
713.432.1422 - Fax 713.432.1253
www.garnerfritzsche.com
Texas Reg. No. F-5712
GFE Project No. 13064



ARCHITECT/ENGINEERS:



1 DEMOLITION PLAN - PLUMBING

DEMOLITION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	DEMO TO THIS POINT

GENERAL NOTES	
1.	REFER TO SHEET P000 FOR PLUMBING DEMOLITION NOTES.

KEYED NOTES	
01	EXISTING PLUMBING FIXTURE TO BE REMOVED.
02	EXISTING PLUMBING FIXTURE TO REMAIN, SHOWN FOR REFERENCE.
03	EXISTING 3/4" CW AND 2" VENT DOWN FROM INTERSTITIAL SPACE TO BE REMOVED. RE: SHEET PD011 FOR EXTENT OF DEMOLITION.
04	EXISTING 8" STORM RISER TO REMAIN.

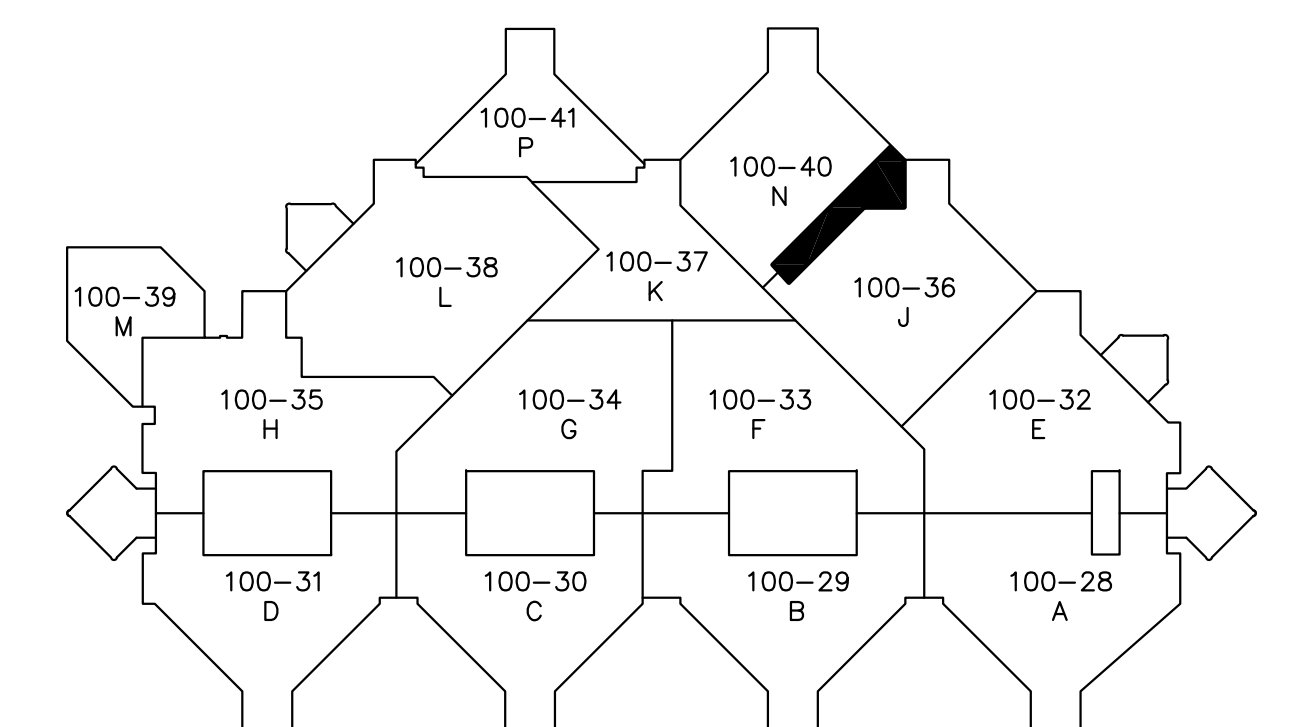
ALTERNATES

REFER TO ARCHITECTURAL PLANS FOR ALTERNATE DEFINITIONS.

ALTERNATE #1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE PLUMBING FIXTURE AND ASSOCIATED PLUMBING BRANCH PIPING.

ALTERNATE #2 - IN ADDITION TO ALTERNATE #1, PATIENT ROOM 1A-512 TO BE A STORAGE ROOMS WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE PLUMBING FIXTURE AND ASSOCIATED PLUMBING BRANCH PIPING. TOLIE 503A TO BE TURNED INTO A STORAGE ROOM. REMOVE PLUMBING FIXTURES AND ASSOCIATED PLUMBING BRANCH PIPING.

ALTERNATE #3 - IN ADDITION TO ALTERNATE #1 AND #2, REMOVE CEILING AND PROVIDE NO FINISHES TO PATIENT ROOM 1A-511 (TURNED STORAGE ROOM IN ALT #1), PATIENT ROOM 1A-512 (TURNED STORAGE ROOM IN ALT #2), TOLIE 503A (TURNED STORAGE ROOM IN ALT #2).



CONSTRUCTION DOCUMENTS SUBMISSION

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GENERAL NOTES	
1.	REFER TO SHEET P000 FOR PLUMBING DEMOLITION NOTES.

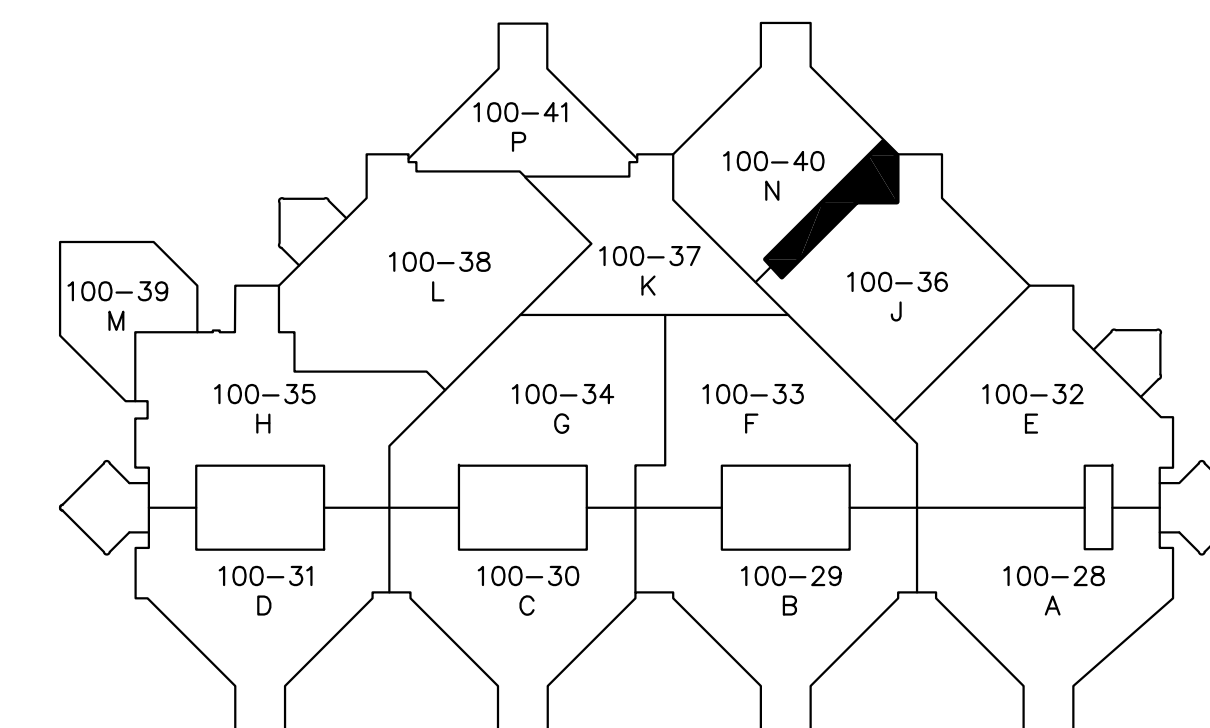
ALTERNATES

REFER TO ARCHITECTURAL PLANS FOR ALTERNATE DEFINITIONS.

ALTERNATE #1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR. REMOVE PLUMBING, REMOVE PLUMBING FIXTURE AND ASSOCIATED PLUMBING BRANCH PIPING.

ALTERNATE #2 - IN ADDITION TO ALTERNATE #1, PATIENT ROOM 1A-512 TO BE A STORAGE ROOMS WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE, REMOVE PLUMBING FIXTURE AND ASSOCIATED PLUMBING BRANCH PIPING. TOILET 503A TO BE TURNED INTO A STORAGE ROOM, REMOVE PLUMBING FIXTURES AND ASSOCIATED PLUMBING BRANCH PIPING.

ALTERNATE #3 - IN ADDITION TO ALTERNATE #1, #2, REMOVE CEILING AND PROVIDE NO FINISHES TO PATIENT ROOM 1A-511 (TURNED STORAGE ROOM IN ALT #1), PATIENT ROOM 1A-512 (TURNED STORAGE ROOM IN ALT #2), TOILET 503A (TURNED STORAGE ROOM IN ALT #2).

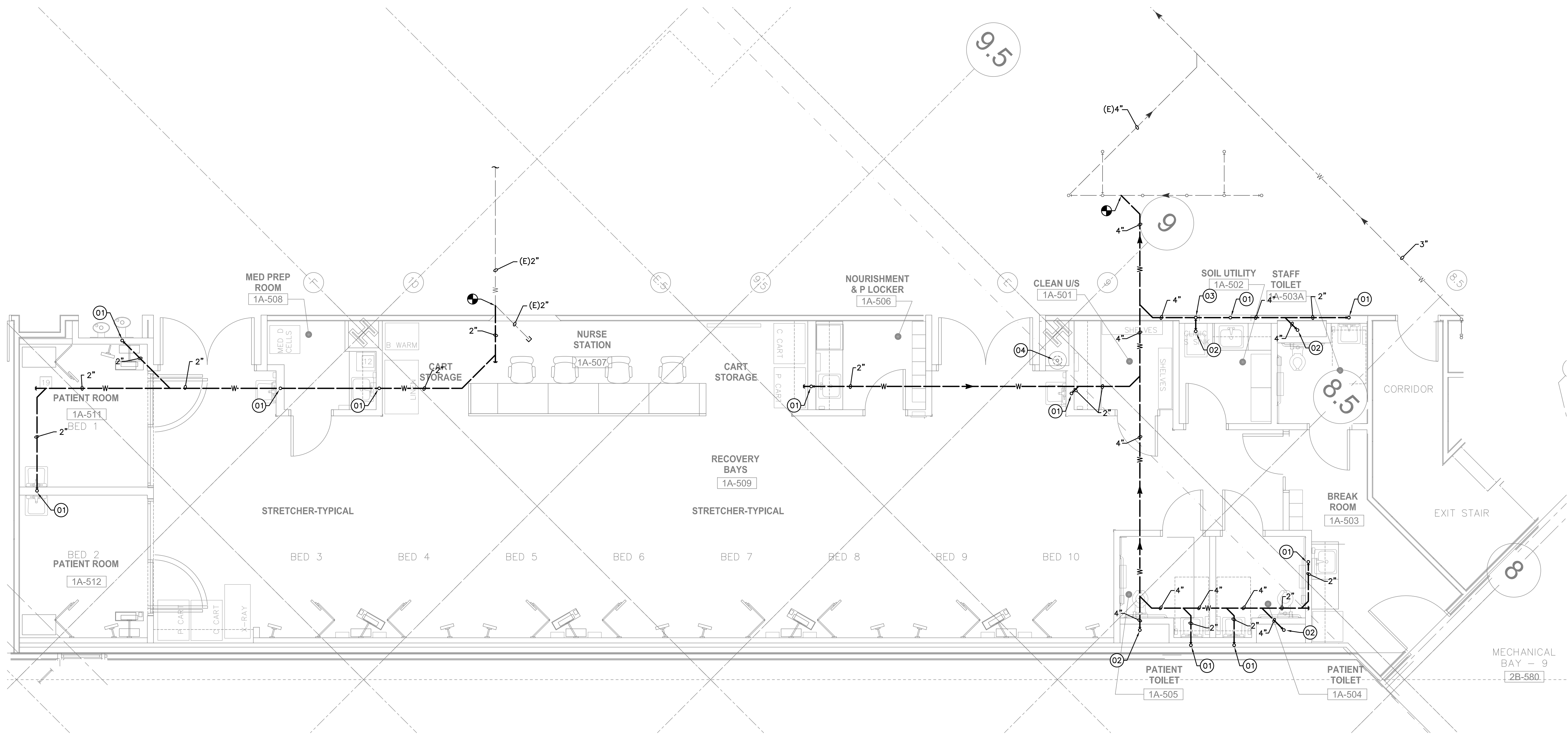


CONSTRUCTION DOCUMENTS SUBMISSION

[illegible]

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

11/01/2013 10:04:00 AM P:\00000000\00000000.dwg - Monday, September 29, 2014 - 12:29 PM - schesser



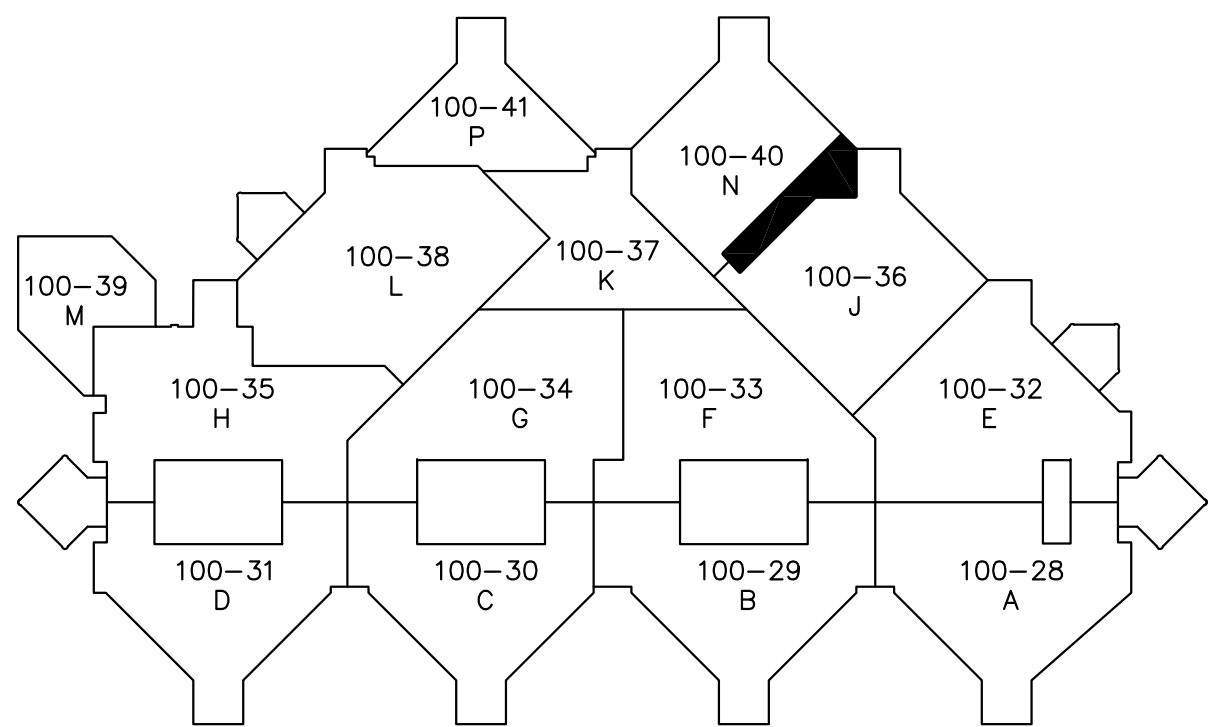
1 INTERSTITIAL 1ST FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"

RENOVATION LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION
	CONNECT AT THIS POINT

GENERAL NOTES	
1. REFER TO SHEET P000 FOR SCHEDULES, ABBREVIATIONS AND NOTES.	
2. PIPING SHOWN ON THIS PLAN IS TO BE ROUTED IN THE FIRST FLOOR INTERSTITIAL SPACE.	

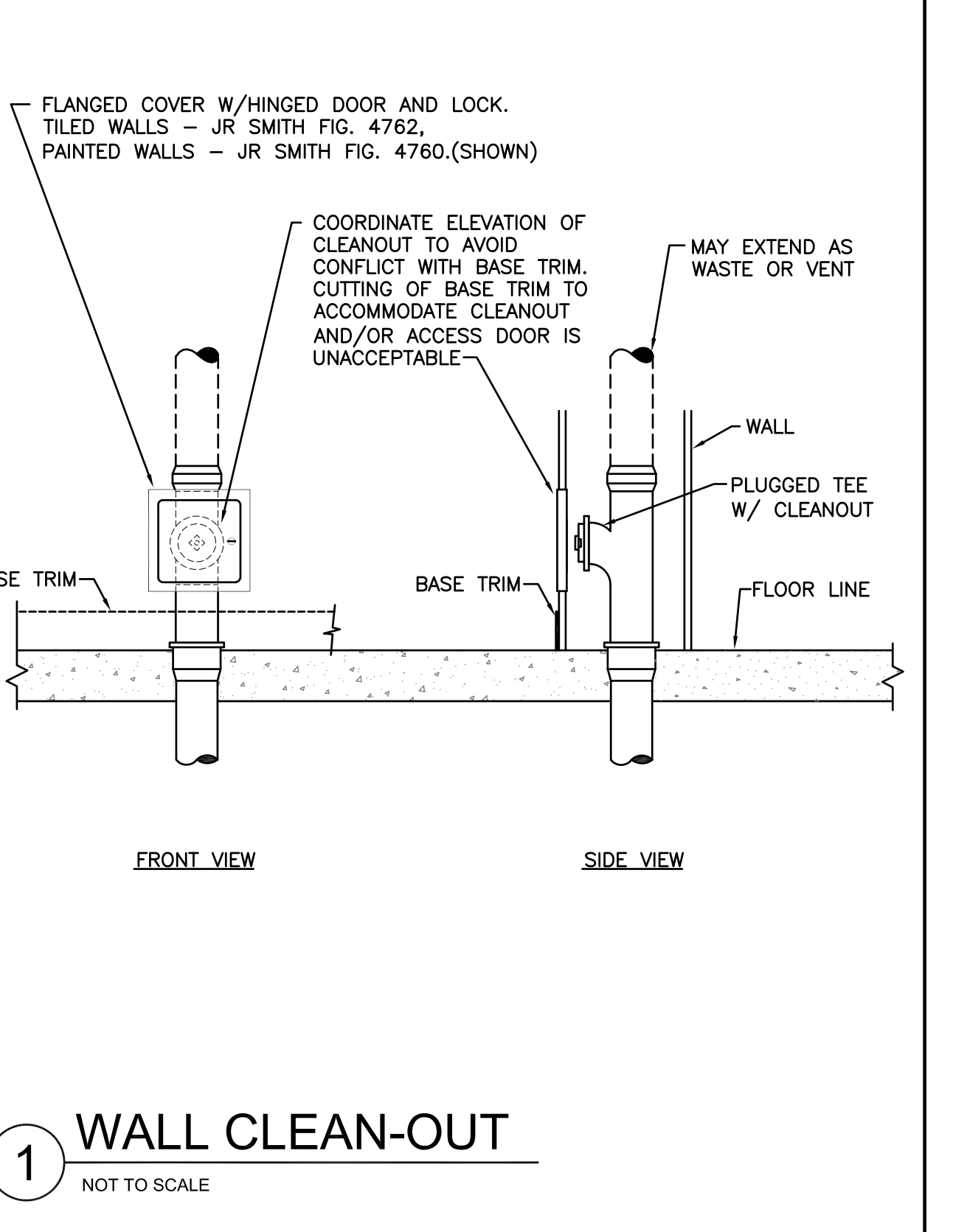
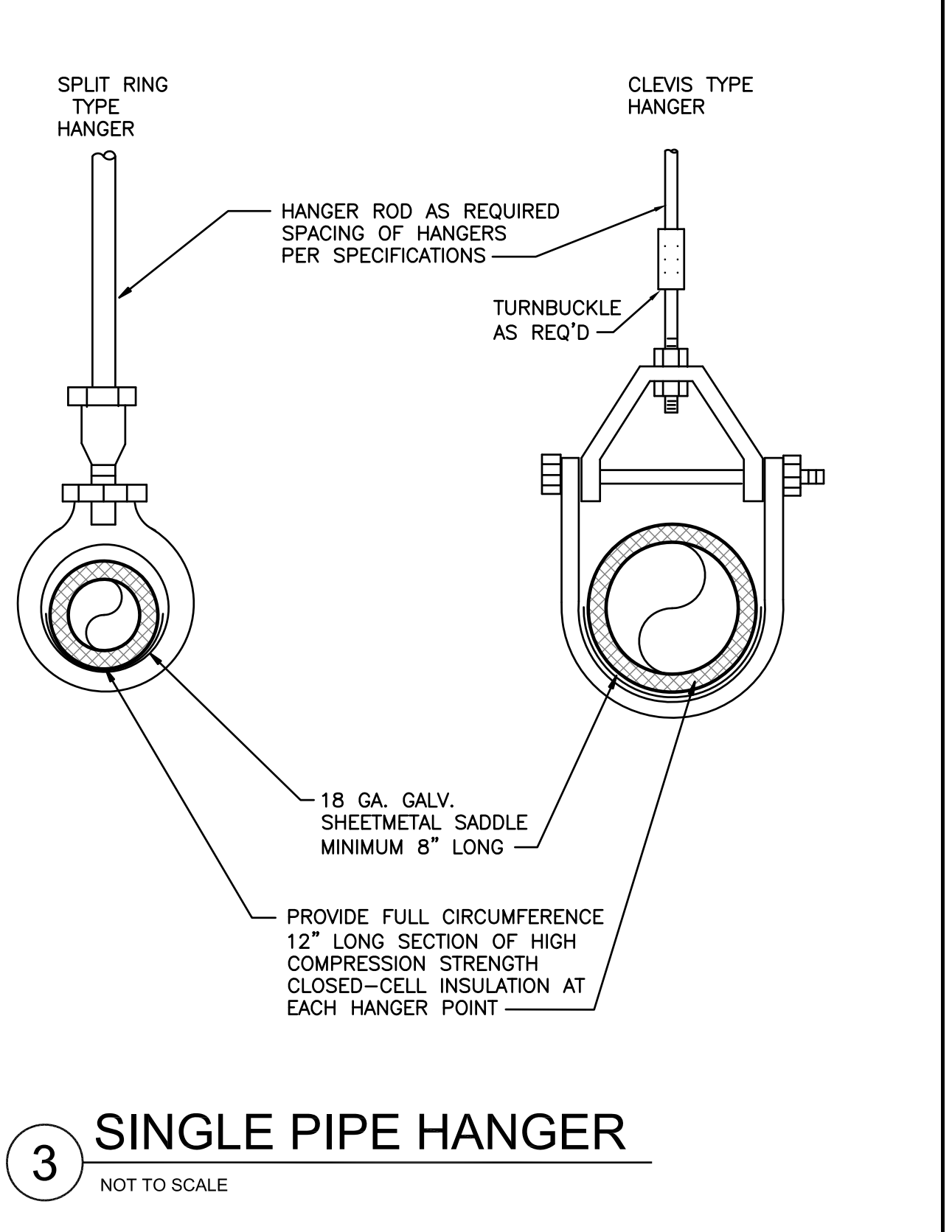
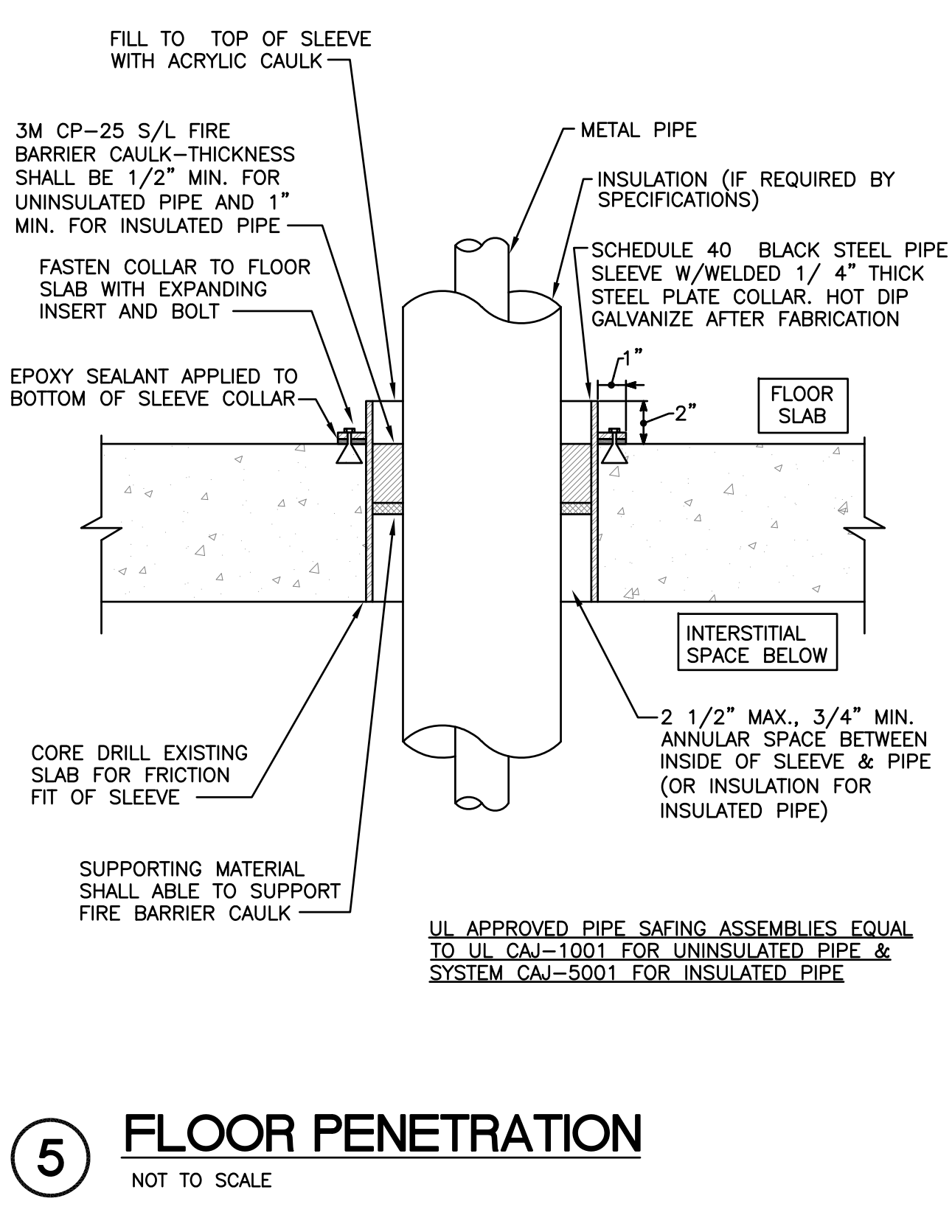
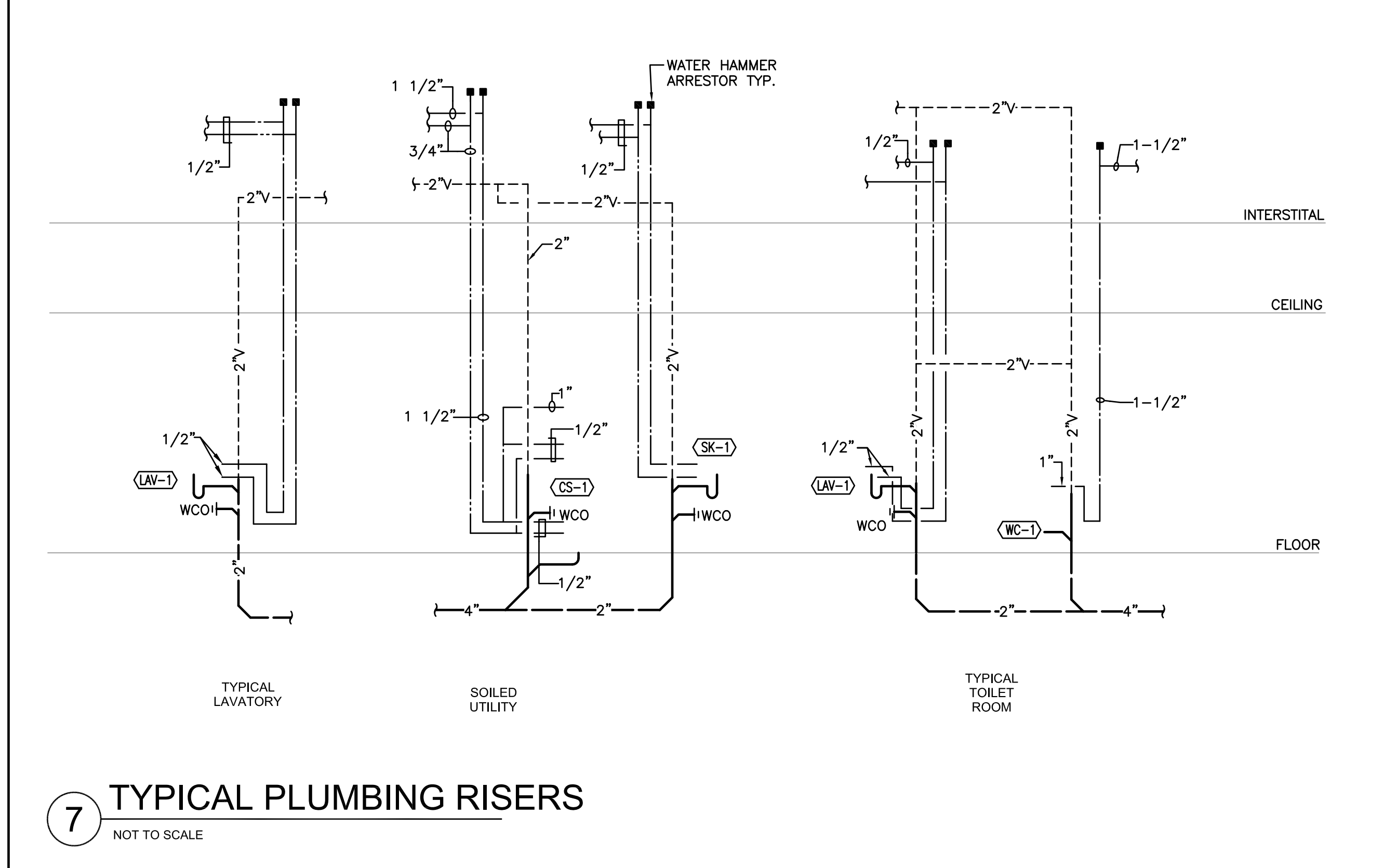
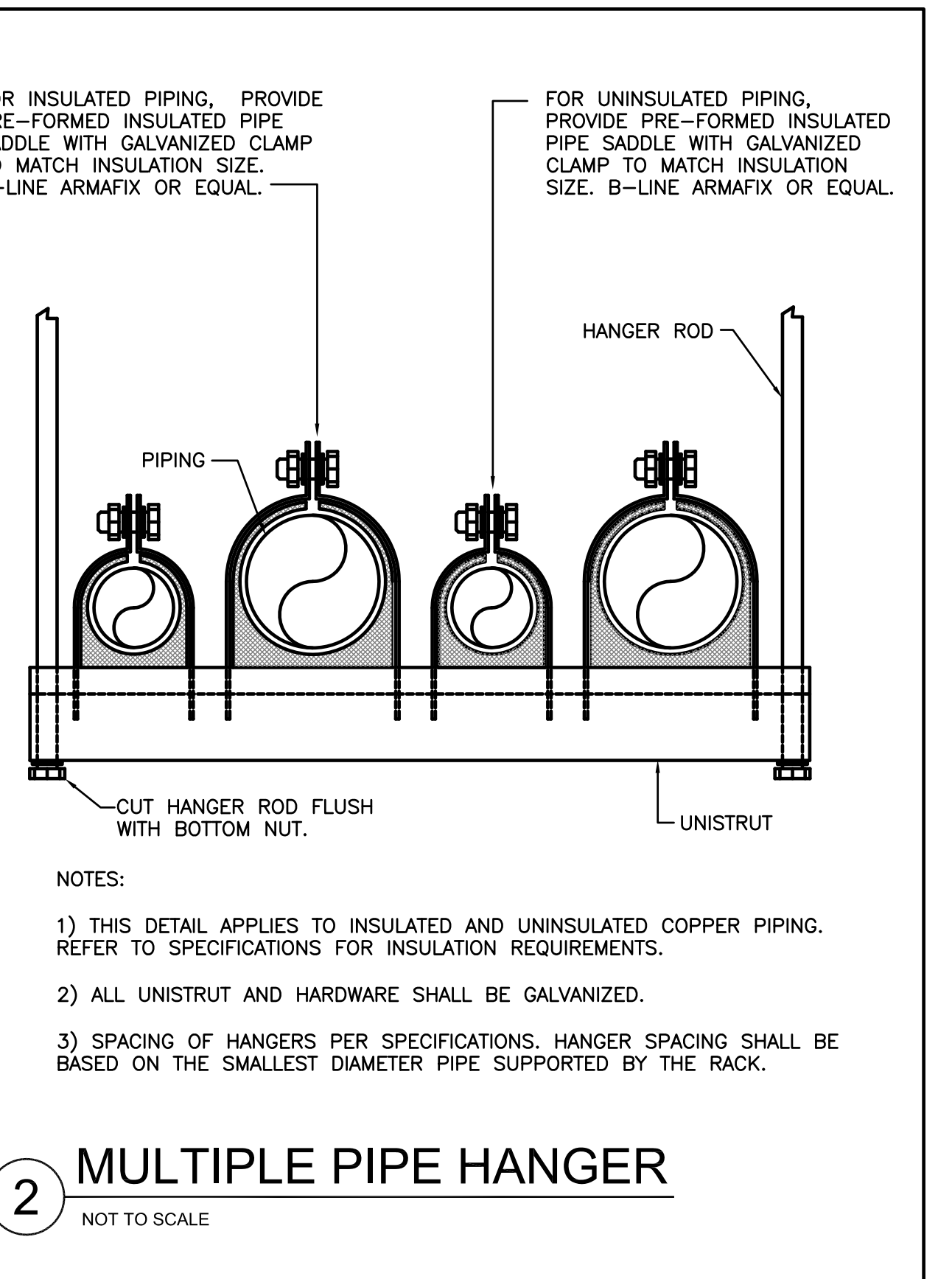
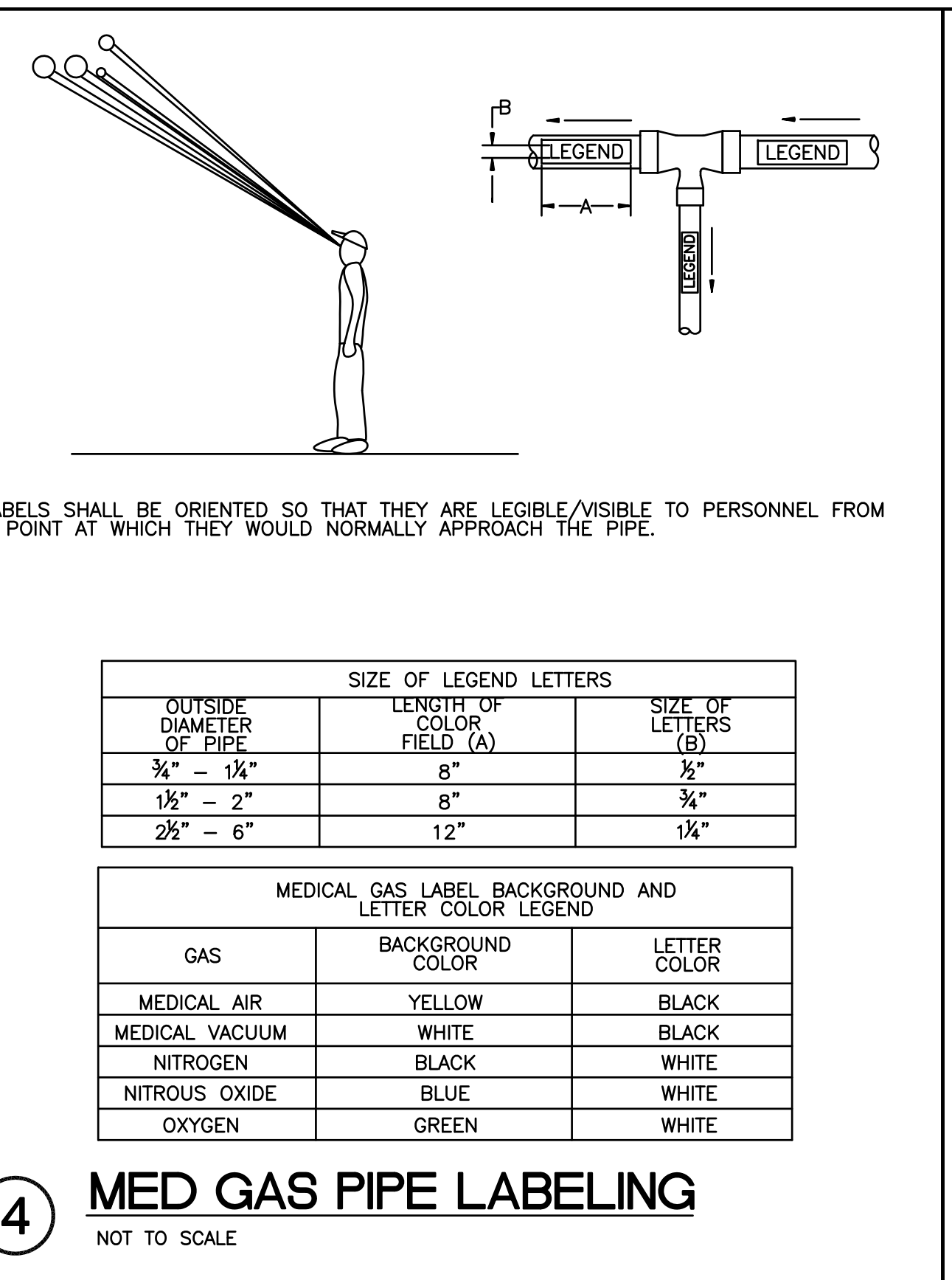
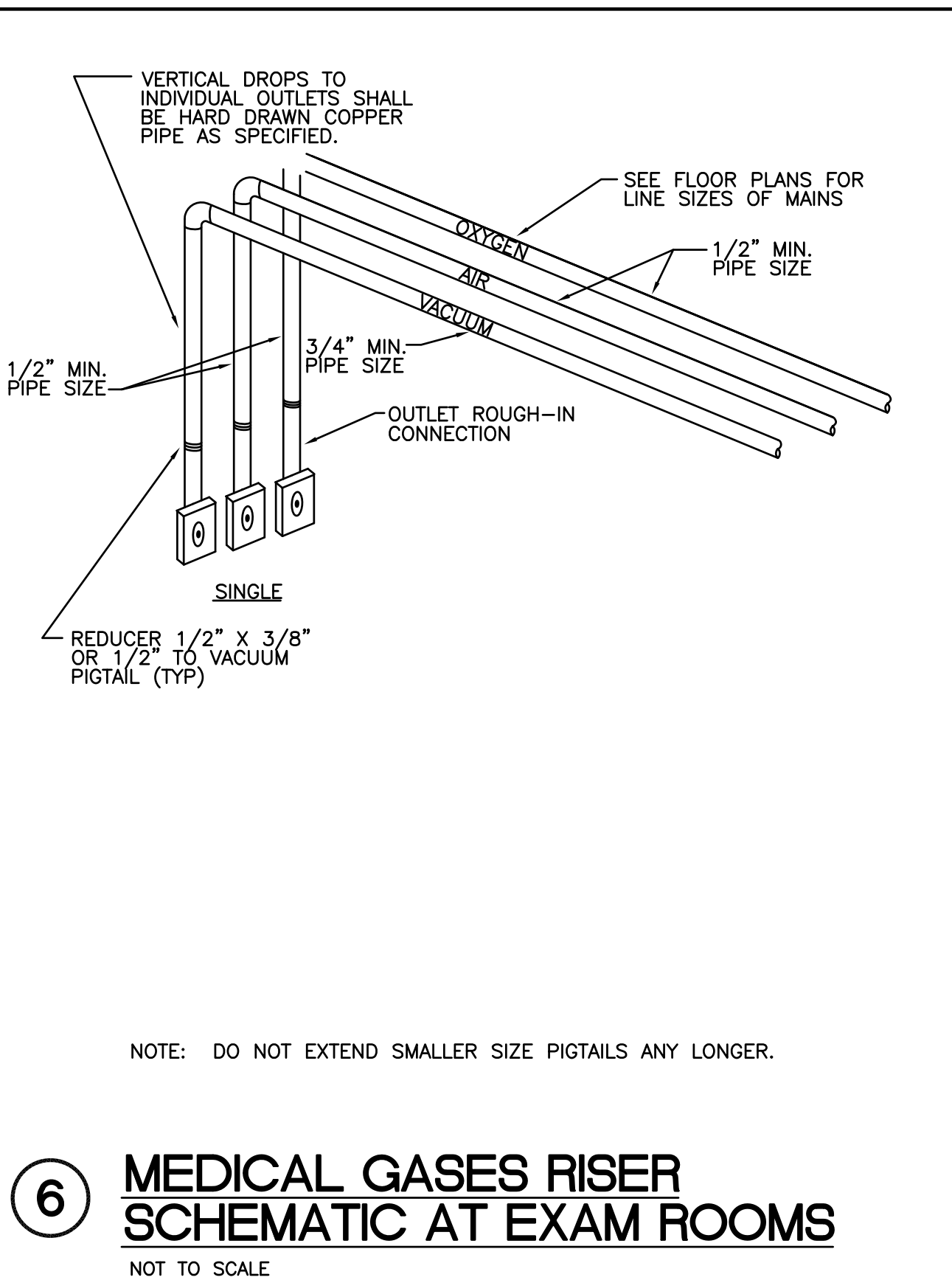
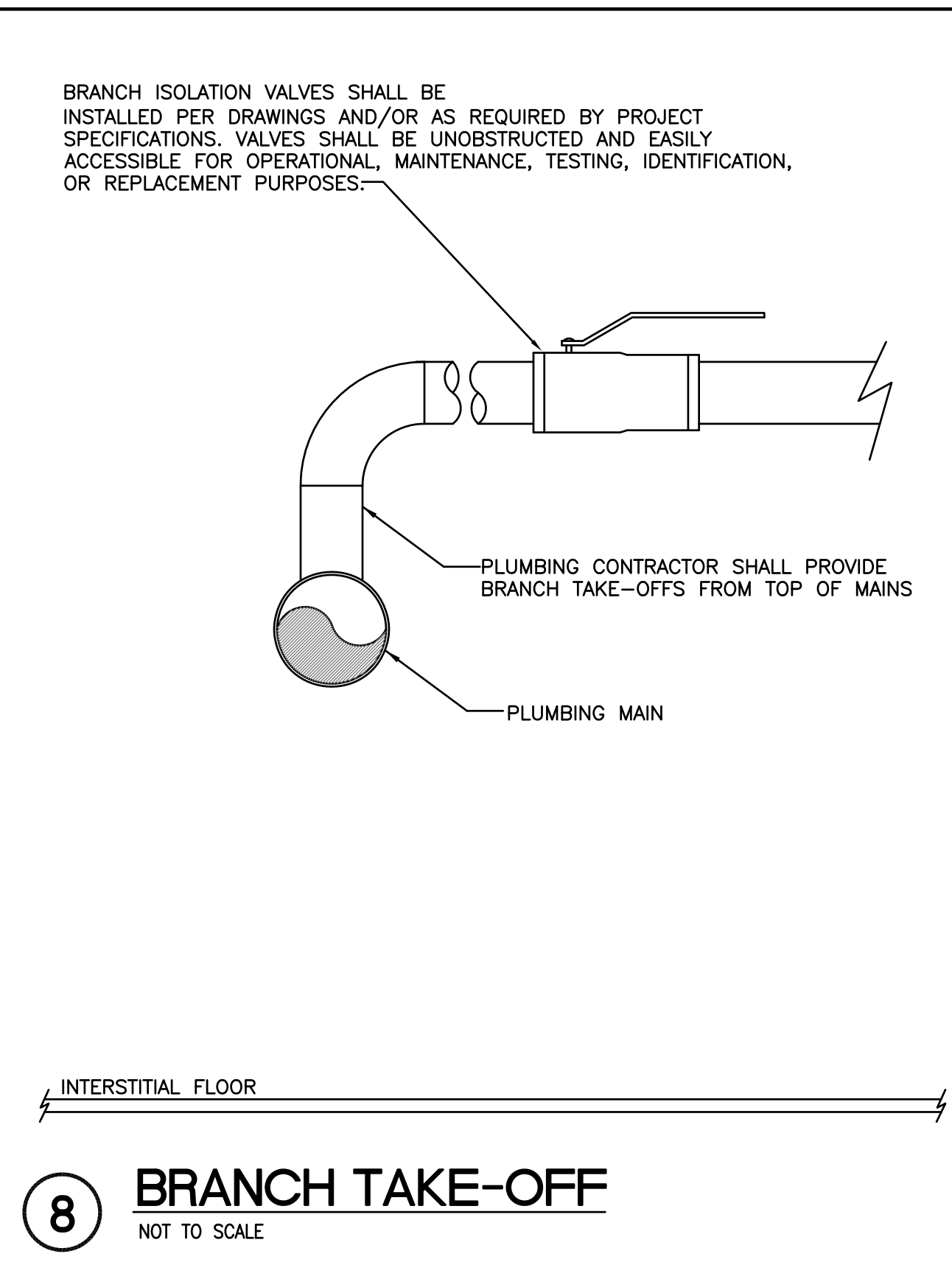
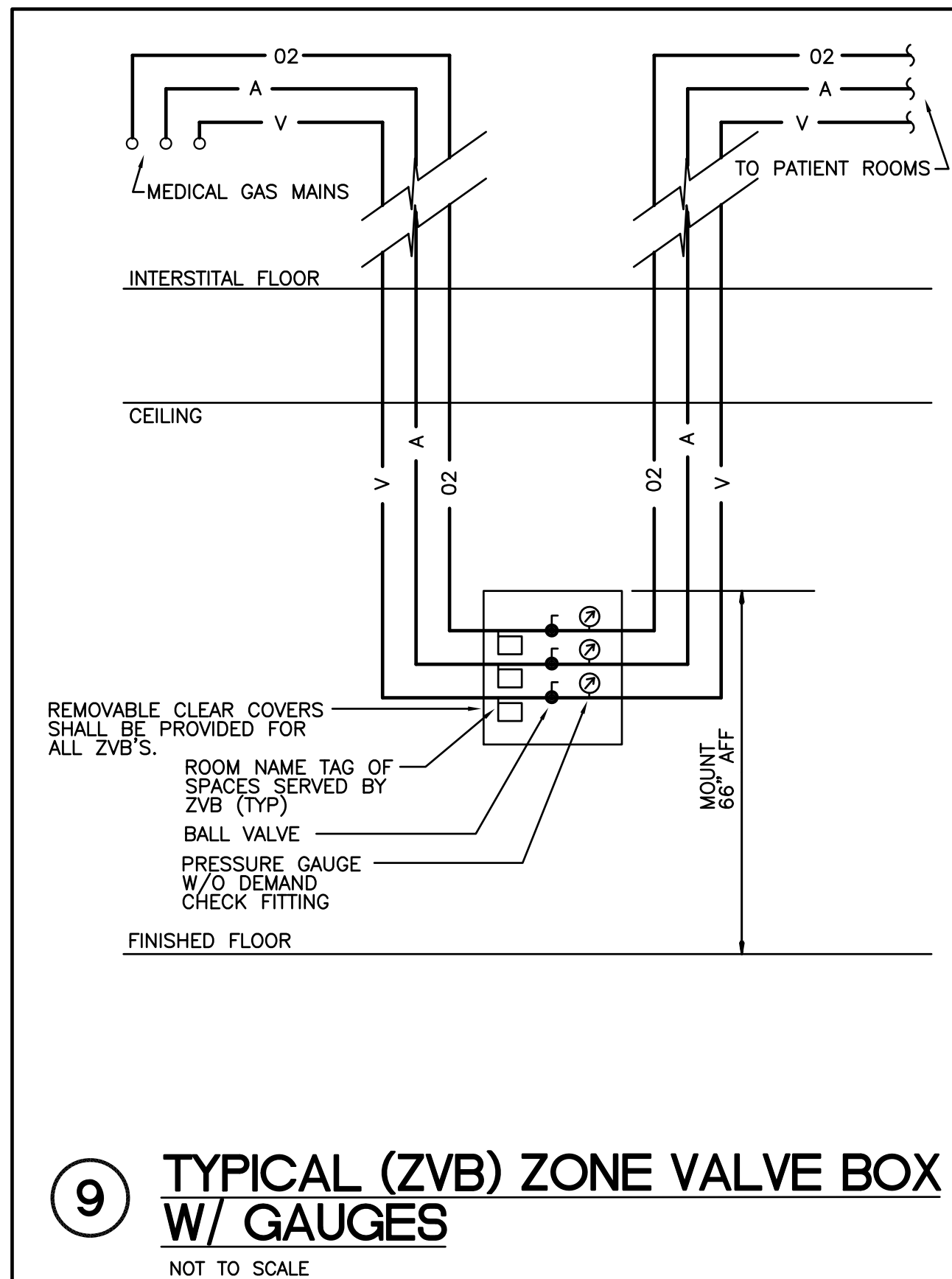
KEYED NOTES	
(01) 2" WASTE FROM ABOVE.	
(02) 4" WASTE FROM ABOVE.	
(03) 4" WASTE DOWN, 2" VENT UP.	
(04) EXISTING 8" STORM DOWN, SHOWN FOR REFERENCE.	

ALTERNATES	
REFER TO ARCHITECTURAL PLANS FOR FOR ALTERNATE DEFINITIONS.	
ALTERNATE #1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE PLUMBING FIXTURE AND ASSOCIATED PLUMBING BRANCH PIPING.	
ALTERNATE #2 - IN ADDITION TO ALTERNATE #1, PATIENT ROOM 1A-512 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE PLUMBING FIXTURE AND ASSOCIATED PLUMBING BRANCH PIPING. TOILET 503A TO BE TURNED INTO A STORAGE ROOM. REMOVE PLUMBING FIXTURES AND ASSOCIATED PLUMBING BRANCH PIPING.	
ALTERNATE #3 - IN ADDITION TO ALTERNATE #1 AND #2, REMOVE CEILING AND PROVIDE NO FINISHES TO PATIENT ROOM 1A-511 (TURNED STORAGE ROOM IN ALT #1), PATIENT ROOM 1A-512 (TURNED STORAGE ROOM IN ALT #2), TOILET 503A (TURNED STORAGE ROOM IN ALT #2).	



CONSTRUCTION DOCUMENTS SUBMISSION

CONSULTANTS: GLMV Architecture 1100 Dairy Ashford, Suite 200 Houston, TX 77059 Tel: (281) 870-1114 Fax: (281) 870-1124 www.glmv.com	ARCHITECT/ENGINEERS: Atriax GROUP 6565 West Loop South, Suite 500, Dallas, TX 77401 713.432.1422 - Fax 713.432.1253 www.garnerfritzsche.com Texas Reg. No. F-5712 GFE Project No. 13064		Drawing Title INTERSTITIAL 1ST FLOOR PLAN PLUMBING Approved Project Director - VAPAHCs PLANNING AND ENGINEERING	Project Title 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line Location MEDICAL CENTER HOUSTON TX Date 09/30/2014 Checked AEF Drawn CSC	Project Number 580-13-403 Building Number B-100 Drawing Number P200 Dwg. 34 of 40	Office of Construction and Facilities Management
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CONSULTANTS: 1160 Dairy Ashford, Suite 200 Houston, TX 77059 Tel: (281) 870-1514 Fax: (281) 870-1724 www.glmv.com		ARCHITECT/ENGINEERS: 6565 West Loop South, Suite 500, Dallas, TX 77401 713.432.1422 - Fax 713.432.1253 www.garnerfritzsche.com Texas Reg. No. F-5712 GFE Project No. 13064		ARCHITECT/ENGINEERS: 6565 West Loop South, Suite 500, Dallas, TX 77401 713.432.1422 - Fax 713.432.1253 www.garnerfritzsche.com Texas Reg. No. F-5712 GFE Project No. 13064		Drawing Title DETAILS PLUMBING Approved Project Director - VAPAHCS PLANNING AND ENGINEERING		Project Title 580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line Location MEDICAL CENTER HOUSTON TX Date 09/30/2014 Checked AEF Drawn CSC		Project Number 580-13-403 Building Number B-100 Drawing Number P401 Dwg. 37 of 40		Office of Construction and Facilities Management 	
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one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
three eighths inch = one foot
0 4
one half inch = one foot
0 4
three quarters inch = one foot
0 2
one inch = one foot
0 6
one and one half inches = one foot
0 6
three inches = one foot
0 6

OF TEXAS
J. L. M. C. W. MERCER
14461
LICENSED
DIAL ENGINES
32.14

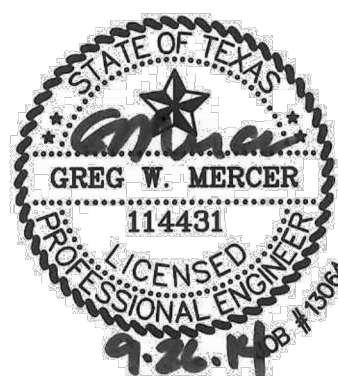
GENERAL NOTES

1. ALL EQUIPMENT, MATERIALS AND INSTALLATION METHODS AS OUTLINED IN THE EXISTING BASE BUILDING SPECIFICATIONS SHALL APPLY TO THIS PROJECT UNLESS OTHERWISE NOTED ON THESE DRAWINGS. THE OWNER SHALL FURNISH A COPY OF THE BASE BUILDING SPECIFICATIONS TO THE CONTRACTOR FOR THIS PROJECT.
2. STANDARD DETAILS ILLUSTRATED ON THE DRAWINGS SHALL BE APPLIED IN ALL CASES WHERE THE FEATURE OCCURS IN THE SYSTEM DESIGN.
3. PRIOR TO THE SUBMISSION OF BID, THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING BUILDING CONDITIONS, UTILITY CONNECTIONS, AND PERTINENT BUILDING SERVICES.
4. COORDINATE ALL PENETRATIONS AND SLEEVE LOCATIONS PRIOR TO ANY FORMING OR CORING WORK.
5. DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES.
7. THE ENTIRE CABLING AND SECURITY INSTALLATION SHALL MEET OR EXCEED THE BUILDING SPECIFICATIONS AND AS SPECIFIED ON THE DRAWINGS.
8. ALL CABLING TO BE ROUTED THROUGH SLAB ABOVE INTO WALKER DUCT LOCATED IN THE INTERSTITIAL SPACE. ROUTE TO APPROPRIATE IDF PER BUILDING 100 STANDARDS.
9. ALL CABLING TO BE LABELED PER VA AND BUILDING 100 STANDARDS.

Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs

<p>CONSULTANTS:</p>  <p>GLM Architecture 1160 Dairy Ashford, Suite 260 Houston, TX 77059 Tel: (281) 878-1934 Fax: (281) 878-1734 www.glmv.com</p>	<p>GF <i>Garner-Fritzsche</i> ENGINEERING, INC.</p> <p>6565 West Loop South, Suite 560, Bellaire, TX 77401 713.432.1422 • Fax 713.432.1253 www.garnerfritzsche.com Texas Reg. No. F-5712 GFE Project No. 13064</p>
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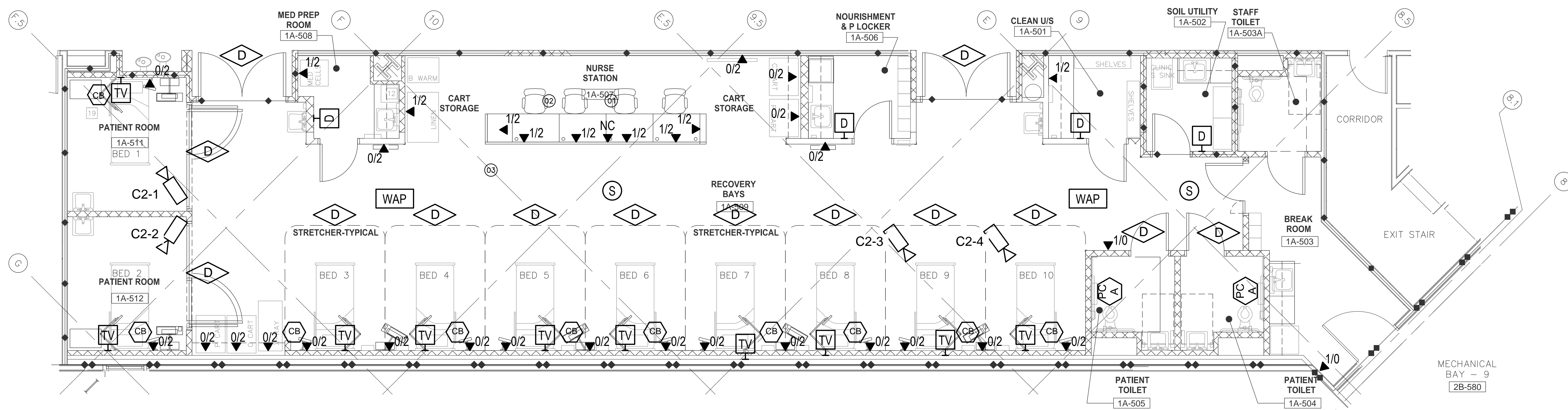




Atriax
GROUP

Project Title		
580-13-403: Renovate 2nd Floor B-100 for Diagnostic and Therapy Care Line		
Location		
MEDICAL CENTER	HOUSTON	TX
Date	Checked	Drawn
02/06/2014	CSH	CSH

Project Number 580-13-403
Building Number B-100
Drawing Number T000

CAMERA NUMBER	LOCATION	DRAWING	CAMERA							MOUNT			CABLE TYPE				TERMINATION POINT	VIEW
			Manufacturer	Type	Resolution	IPS	Lens	Compression	Housing	Type	Height	Detail	Signal	Power				
C2-1	BED 1	T201	Pelco	FD2-V10-G	650 TVL	N/A	2.8mm-10mm	N/A	Clear Dome	Drop Ceiling		5/TA01	Analog	RG 59	External	24VAC	Multiplexer located nurse station.	Patient bed
C2-2	BED 2	T201	Pelco	FD2-V10-G	650 TVL	N/A	2.8mm-10mm	N/A	Clear Dome	Drop Ceiling		5/TA01	Analog	RG 59	External	24VAC	Multiplexer located nurse station.	Patient bed
C2-3	BED 9	T201	Pelco	FD2-V10-G	650 TVL	N/A	2.8mm-10mm	N/A	Clear Dome	Drop Ceiling		5/TA01	Analog	RG 59	External	24VAC	Multiplexer located nurse station.	Patient bed
C2-4	BED 10	T201	Pelco	FD2-V10-G	650 TVL	N/A	2.8mm-10mm	N/A	Clear Dome	Drop Ceiling		5/TA01	Analog	RG 59	External	24VAC	Multiplexer located nurse station.	Patient bed



RENOVATON LEGEND	
SYMBOL	DESCRIPTION
	EXISTING TO REMAIN
	NEW CONSTRUCTION

GENERAL NOTES

1. REFER TO THE GENERAL NOTES ON THE INFORMATION SHEET FOR ADDITIONAL INFORMATION.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. VOICE/DATA OUTLET HEIGHTS AND ORIENTATION ARE NOT INTENDED TO BE SHOWN ON THESE PLANS, REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR ALL RECEPTACLE/OUTLET HEIGHTS AND ORIENTATION PRIOR TO INSTALLATION. THE ARCHITECTURAL DRAWINGS AND OWNER SPECIFICATIONS SHALL SUPERSEDE ANY HEIGHT DIMENSIONS THAT ARE SHOWN ON THESE PLANS.
4. COORDINATE FINAL WAP LOCATIONS WITH VA ISD PRIOR TO INSTALL.
5. ALL INFORMATION SHOWN ON THIS DRAWING SHALL BE ASSUMED NEW, PROVIDED AND INSTALLED BY THE CABLING CONTRACTOR UNLESS OTHERWISE NOTED.
6. ALL TELECOM CABLING TO TERMINATE IN NEAREST COMMUNICATIONS ROOM.
7. PROVIDE NEW PATCH PANELS AND 20' CROSS CONNECT CABLES AS NEEDED TO SUPPORT NEW CABLING.
8. SUPPORT ALL CABLING PER MANUFACTURER STANDARDS.
9. ALL NURSE CALL CABLING TO TERMINATE AT NEAREST NURSE CALL HEADEND.
10. ROUTE ALL TV COAXIAL CABLE TO NEAREST AMPLIFIER.

ALTERNATES

REFER TO ARCHITECTURAL PLANS FOR ALTERNATE DEFINITIONS.

ALTERNATE #1 - PATIENT ROOM 1A-511 TO BE A STORAGE ROOM WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE ALL TELECOM DEVICES.

ALTERNATE #2 - IN ADDITION TO ALTERNATE #1, PATIENT ROOM 1A-512 TO BE A STORAGE ROOMS WITH 1 HOUR RATED CONSTRUCTION AND RATED DOOR FRAME AND HARDWARE. REMOVE ALL TELECOM DEVICES.

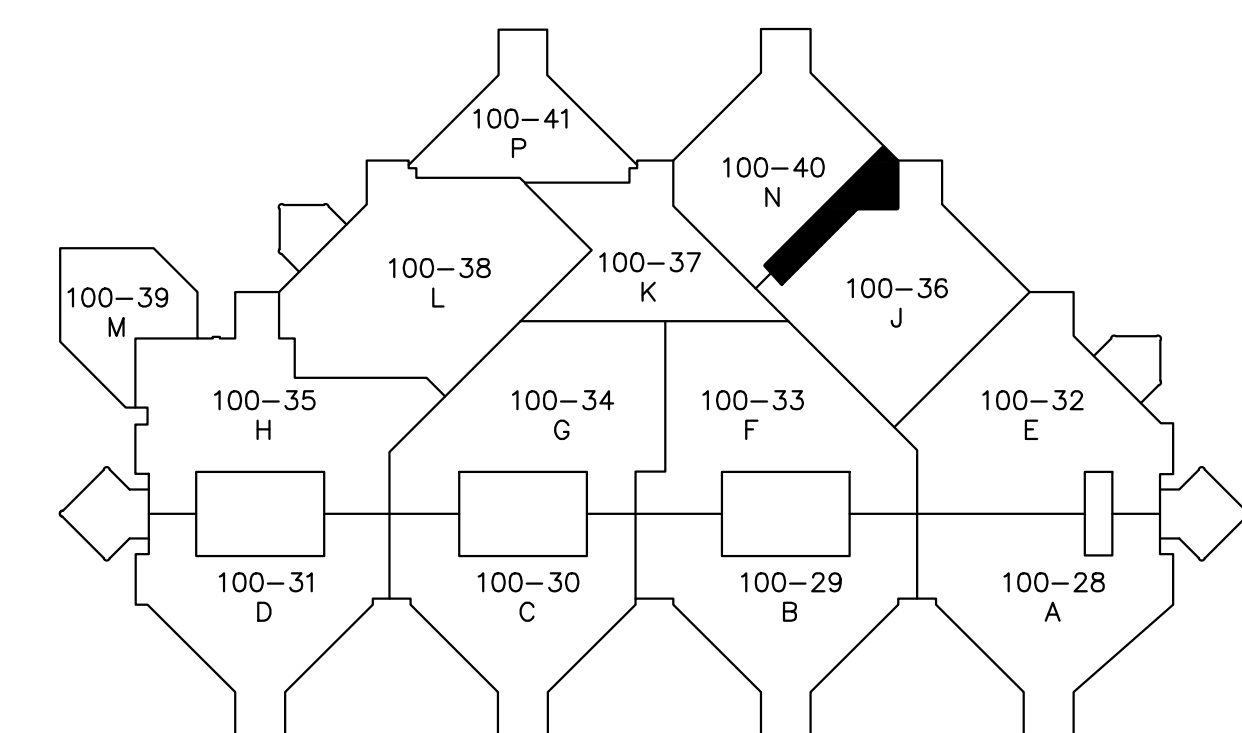
TOILET 503A TO BE TURNED INTO A STORAGE ROOM. REMOVE ANY NURSE CALL DEVICES.

ALTERNATE #3 - IN ADDITION TO ALTERNATE #1 AND #2, REMOVE CEILING AND PARTING DO NOT FINISHES TO PATIENT ROOM 1A-511 (TURNED STORAGE ROOM IN ALTERNATE #1), PATIENT ROOM 1A-512 (TURNED STORAGE ROOM IN ALT #2), TOILET 503A (TURNED STORAGE ROOM IN ALT #2).

KEYED NOTES

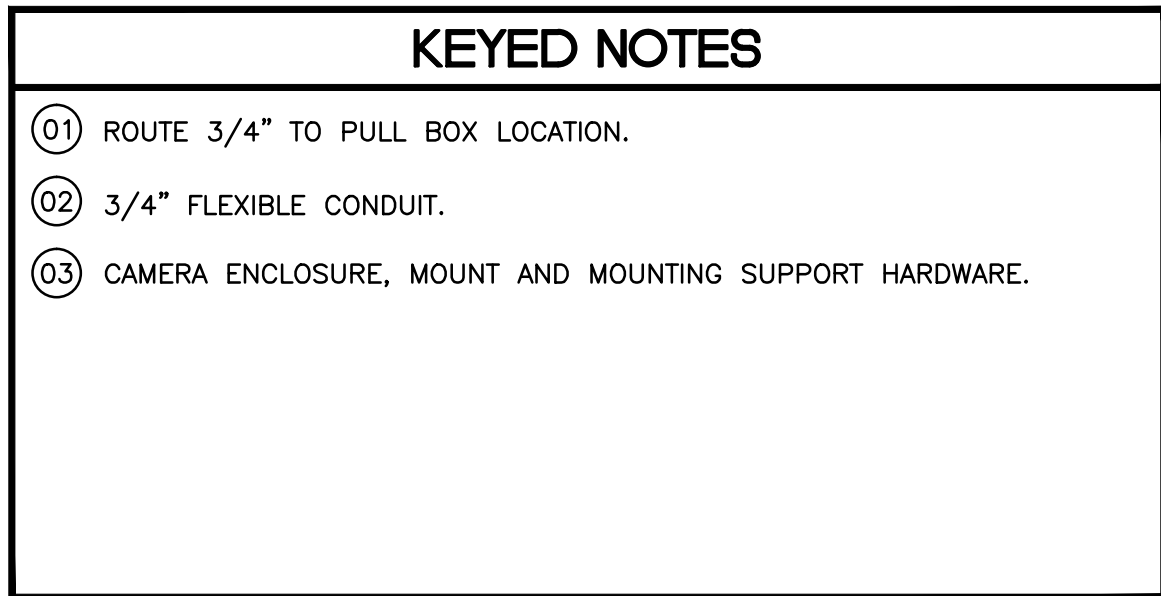
- ① UTILIZE NURSE CALL SYSTEM TO PROVIDE DIRECT INTERCOM BETWEEN NURSE CALL MASTER STATION AND THE FOLLOWING ROOMS: 2C-448, 435, 439, 409, 411, 405.
- ② PROVIDE 17" MONITOR WITH QUAD VIEW MULTIPLEXER FOR PATIENT ROOM CAMERAS. PROVIDE MINI COAXIAL CABLE FROM EACH CAMERA TO MULTIPLEXER. COORDINATE WITH USER FOR FINAL LOCATION OF MONITOR.
- ③ CAMERA POWER SUPPLY. ALTRONIX UT2444U OR EQUIVALENT. MOUNT IN ACCESSIBLE SPACE. PROVIDE 18-2 POWER CABLE FROM POWER SUPPLY TO EACH CAMERA.

1 TELECOM/NURSE CALL PLAN

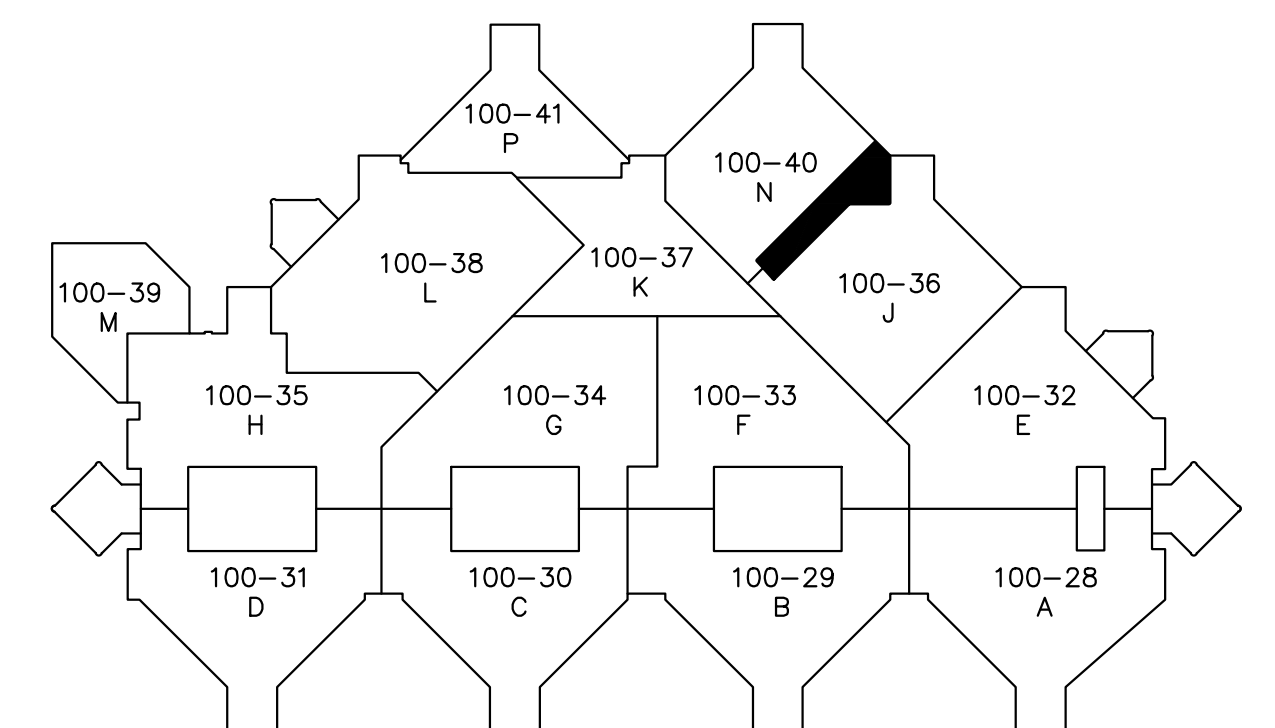


CONSTRUCTION DOCUMENTS SUBMISSION

[illegible]



1 CAMERA CEILING MOUNT DETAIL



CONSTRUCTION DOCUMENTS SUBMISSION

[illegible]